

?ds

Set	Items	Description
S1	122863	XML OR X()M()L OR EXTENSIBLE() (MARKUP OR MARK()UP)
S2	6845	S1 AND SCHEMA?
S3	1445	S2 AND (VALIDAT? OR VALIDITY? OR PARSE?)
S4	614	S1 (S)SCHEMA? (S) (VALIDAT? OR VALIDITY? OR PARSE?)
S5	138	S4 NOT PY>1999
S6	95	S4 NOT PD>19991013
S7	138	S5 OR S6
S8	63	RD (unique items)
S9	31	S8 AND S1(3N) (VALIDATOR? OR PARSER?)
S10	54	S8 AND MICROSOFT
S11	29	S10 NOT S9

?show files

File 9:Business & Industry(R) Jul/1994-2003/Feb 18  
(c) 2003 Resp. DB Svcs.

File 15:ABI/Inform(R) 1971-2003/Feb 19  
(c) 2003 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2003/Feb 18  
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File 160:Gale Group PROMT(R) 1972-1989  
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File 47:Gale Group Magazine DB(TM) 1959-2003/Feb 18  
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File 98:General Sci Abs/Full-Text 1984-2003/Jan  
(c) 2003 The HW Wilson Co.

File 148:Gale Group Trade & Industry DB 1976-2003/Feb 18  
(c)2003 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2003/Feb 18  
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File 369:New Scientist 1994-2003/Feb W2  
(c) 2003 Reed Business Information Ltd.

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
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File 613:PR Newswire 1999-2003/Feb 19  
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File 621:Gale Group New Prod.Annou.(R) 1985-2003/Feb 18  
(c) 2003 The Gale Group

File 624:McGraw-Hill Publications 1985-2003/Feb 19  
(c) 2003 McGraw-Hill Co. Inc

File 635:Business Dateline(R) 1985-2003/Feb 18  
(c) 2003 ProQuest Info&Learning

File 636:Gale Group Newsletter DB(TM) 1987-2003/Feb 18  
(c) 2003 The Gale Group

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?t s9/5,k/11-31

9/5,K/11 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06774692 Supplier Number: 57101965 (USE FORMAT 7 FOR FULLTEXT)  
**Commerce One Announces the Industry's First XML Development Toolkit for Building E-Commerce Applications.**  
Business Wire, p0506  
Nov 2, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 725  
PUBLISHER NAME: Business Wire  
COMPANY NAMES: \*Commerce One Inc.  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372640 (Electronic Commerce Software)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
SIC CODES: 7372 (Prepackaged software)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

... the leader in global business-to-business e-commerce solutions, is pioneering the development of **XML** -based portal applications that link buyers and suppliers in real-time trading communities. Just as HTML provides ubiquitous communications for Web users, **XML schemas** provide the required structure and definition to enable buyers and suppliers to seamlessly conduct e-commerce on a global basis. Using information-rich, robust **XML schema** -based applications, XDK 1.0 will allow developers to provide application-to-application interoperability, which maximizes the return on investment for enterprises adopting **XML** -based e-commerce. By introducing object-oriented design for **XML**, Commerce One XDK 1.0 significantly reduces application development time, and provides a powerful **XML schema** and DTD **parser** to **validate XML** documents; an industry standard SAX API set (Simple API for **XML**); and a rapid application development environment with strong data typing capabilities.

Consistent with Commerce One...

9/5,K/12 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06751051 Supplier Number: 56748861 (USE FORMAT 7 FOR FULLTEXT)  
**Informix is latest to lay its chips on XML. (Company Business and Marketing)**  
Lattig, Michael  
Network World, pNA  
Oct 11, 1999  
ISSN: 0887-7661  
Language: English Record Type: Fulltext  
Document Type: Tabloid; Trade  
Word Count: 456  
PUBLISHER NAME: Network World, Inc.  
COMPANY NAMES: \*Informix Corp.  
EVENT NAMES: \*220 (Strategy & planning)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372421 (DBMS)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)  
TRADE NAMES: Informix Centaur (DBMS)  
SPECIAL FEATURES: COMPANY

... enabled-applications using the HTTP protocol, officials said.  
Internet Foundation.2000 will soon support hierarchical **XML** data storage, allowing the import, export, storage, and querying of **XML**

structures in their native hierarchical format. An early developer's release of the capability, which is open to any Java **XML parser** and integrates **XML** with pre-existing database **schemas**, will be available online later this year through the Informix Developers Network at [www.informix...](http://www.informix...)

9/5,K/13 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06721982 Supplier Number: 56260500 (USE FORMAT 7 FOR FULLTEXT)  
**Informix XML-Enables Internet Foundation.2000; Defines Roadmap for XML Strategy. (Company Business and Marketing)**  
EDGE: Work-Group Computing Report, pNA  
Oct 11, 1999  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 841  
PUBLISHER NAME: EDGE Publishing  
COMPANY NAMES: \*Informix Corp.  
EVENT NAMES: \*331 (Product development)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372682 (Internet Server Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); TELC (Telecommunications)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

... an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

-- Hierarchical **XML** Data Storage - Allows Internet Foundation.2000 users the ability to import, export, store and query/index **XML** structures in their native hierarchical format. It provides a unique performance advantage over other approaches to storing **XML** documents in flat relational tables, where the use of a document's structures when processing queries is lost. Hierarchical **XML** data storage is open to any Java **XML parser** and integrates **XML** with pre-existing database **schema**. An early developer's release will be made available later this year through the Informix...

9/5,K/14 (Item 7 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06707040 Supplier Number: 56077241 (USE FORMAT 7 FOR FULLTEXT)  
**XML: Ready for Prime Time. (Technology Information)**  
Angel, Jonathan  
Network, pNA  
Oct 1, 1999  
ISSN: 1093-8001  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Trade  
Word Count: 4369

**ABSTRACT:**

XML is here to stay and will make developers lives better and easier. XML and its companion technology XSL (Extensible Stylesheet Language) separate formatting from content, allowing developers to expose and manipulate data. HTML, in contrast, mixes formatting tags with plain text. Though HTML also functions as middleware, its limitations in formatting and as middleware are well known. XML is a metalanguage that is designed to be a true subset of SGML, such that any valid XML document is also valid SGML. It can mark up standard documents just like HTML but is better than HTML when dealing with structured data.

PUBLISHER NAME: Miller Freeman, Inc.

EVENT NAMES: \*330 (Product information)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372513 (Application Development Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)

... specific document or section thereof. For example, the instruction `<?xml version = 1.0"?>` tells an **XML parser** that the document passing through it is indeed XML. The instruction `<?rtf page?>`, on the...

...of elements) and hence can be used to create style sheets (document templates) that any **XML parser** can understand.

XSL style sheets describe how XML documents should be converted into other formats...W3C developed the concept of namespaces and the `xmlns` keyword. Together, they allow a single **XML** document to employ element and attribute names that formerly would have clashed. Now, these are distinguished by different namespace prefixes- and **validated** against different DTDs or **schemas**.

Here's an XML code fragment using namespaces:

```
<inventory xmlns:storea= "http://www.knowknew.com...
```

9/5,K/15 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06637693 Supplier Number: 55758555 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft to Replumb COM+ for Native XML Support.**  
Computergram International, pNA  
Sept 14, 1999  
ISSN: 0268-716X  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 407  
PUBLISHER NAME: ComputerWire, Inc.  
COMPANY NAMES: \*Microsoft Corp.  
EVENT NAMES: \*220 (Strategy & planning); 338 (Product discontinued)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372000 (Computer Software)  
INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business, International)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: LOB; COMPANY

... to work together.

"We're doing deep replumbing of COM so that objects interact via **XML**," said Maritz, "others have used an **XML parser** and a standard **schemas** to deal with the messages - we're making that native." Microsoft is working on additional protocols in **XML** tags to provide additional information, such as timing, error handling and security, he said. For some time, Microsoft has been developing support for **XML**-based RPC through SOAP - The Simple Object Access Protocol - now on version 0.9. SOAP defines a simple, extensible message format in standard **XML**, providing a way to send **XML** messages over HTTP. It is currently soliciting industry feedback over the specification. UserLand Software Inc...

9/5,K/16 (Item 9 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06441638 Supplier Number: 55009153 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft Won't Kill XML. (Company Business and Marketing) (Column)**  
Walsh, Brian

Network Computing, p42

June 28, 1999

ISSN: 1046-4468

Language: English Record Type: Fulltext

Article Type: Column

Document Type: Magazine/Journal; Trade

Word Count: 660

PUBLISHER NAME: CMP Publications, Inc.

COMPANY NAMES: \*Microsoft Corp.

EVENT NAMES: \*331 (Product development)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372510 (Software Development Tools); 7372513  
(Application Development Software); 7372682 (Internet Server  
Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office  
Automation)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

... t fret about IP's future is that its control is spread across many  
hands.

**XML** is similar in that a number of companies have competing **XML**  
**parsers**. **XML** is self-describing, and any **schema** that Microsoft creates  
should be verifiable by the **XML** community. Should be are the operative  
words. In the worst-case scenario, **XML** itself is balkanized by different  
vendor camps. A more likely outcome is that **XML** goes into widespread use  
intact, but the fight moves to different visions of how **XML** is used.

Microsoft uses XML because it solves problems. New releases of  
productivity applications adversely...

...objects to access them. Now a third, perhaps better engineered  
alternative has emerged-integrate an **XML parser** into your application  
and parse the document as you would any XML source. This option...

9/5,K/17 (Item 10 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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06393028 Supplier Number: 54812610 (USE FORMAT 7 FOR FULLTEXT)

**Microsoft Backs XML As Standard Language; Big-name endorsement likely to  
coax users to adopt data description format .(Product Information)**

Orenstein, David

Computerworld, p78(1)

June 7, 1999

ISSN: 0010-4841

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; Trade

Word Count: 573

PUBLISHER NAME: IDG Communications, Inc.

COMPANY NAMES: \*Microsoft Corp.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372682 (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office  
Automation); INTL (Business, International)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: Microsoft Internet Explorer 4.0 (Web browser)

SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

Although most corporate developers are still just pondering the power of  
**Extensible Markup Language (XML)**, some Microsoft Corp. customers said  
the vendor is providing the tools and direction they need to spur **XML**'s  
use for a variety of tasks.Microsoft is building support for **XML** into its  
development tools for the sweeping role it envisions for the language. **XML**  
allows developers to describe data within a Web page or text message with  
tags similar...

...the Internet programming language HTML (see chart at right). A key difference, however, is that **XML** lets users define their own tags to describe their data.'The New ASCII'At Microsoft's TechEd '99 conference in Dallas last month, the company touted **XML** as a format that will be common to virtually all Internet applications, making it the...

...data exchange and application integration. Many developers quickly latched on to a recurring description of **XML** at the conference as "the new ASCII." Although **XML** use is still scant among developers, sessions on **XML** drew standing-room-only crowds. Other PlayersMicrosoft isn't the fastest vendor to market with **XML** technologies -- other companies such as Bluestone Software Inc. already provide an **XML** server, and ArborText Inc. already provides an **XML** editor. But Microsoft's tremendous influence over millions of developers will spur much of **XML** 's rapid growth, said Martin Marshall, an analyst at Zona Research Inc. in Foster City, Calif. With some **XML** standards unfinished, no vendor can provide complete **XML** support, Marshall said, but Microsoft will provide a comprehensive set of **XML** tools, "just in the same way that Visual Studio is a pretty good set of tools." Even before **XML** is thoroughly integrated into Visual Studio, Philip Morris Inc. plans to jump into **XML**, said Ken P. Forster, a staff engineer at the Richmond, Va., tobacco and foods giant...

...said. "I don't have to wait for wizards." Custom TaggingPhilip Morris is looking to **XML** to enable the myriad embedded devices on its manufacturing plant floors to describe themselves and their data to applications in a standard way. Because **XML** allows users to define their own tags and is based on simple text, **XML** could embrace the different devices. With such a system established, Forster said, the data streaming from the devices, once formatted with **XML**, could be routed to different applications by Microsoft's BizTalk server, scheduled for beta testing this fall. The data could be understood by Windows applications by using Microsoft's COM **XML** parser. At Qualcomm Inc. in San Diego, developers of a wireless communications system that monitors freight trucks are looking at **XML** as a way to connect distributed application components, said applications engineer Vik Yashpal. Messages with **XML**-tagged data -- and simple logic commands -- could be carried by MSMQ, Microsoft's message queuing technology, Yashpal said. Although users agreed with Microsoft that **XML** will likely become pervasive, some cited near-term obstacles. Using **XML** requires writing **schemas** that define rules for **XML** documents. And efforts to design industrywide **schema** are only now getting under way. Wilson K. Gibbins, a staff Web technology consultant at...

...recently standardized on the Internet Explorer 4 browser. Upgrading to Internet Explorer 5, which features **XML** support, could be years away, he said. w

9/5,K/18 (Item 11 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06378608 Supplier Number: 54763155 (USE FORMAT 7 FOR FULLTEXT)  
**Are Too Many Players Trying To Shape XML?(Internet/Web/Online Service Information)**  
Booker, Ellis; Schwartz, Jeffrey  
InternetWeek, p1  
May 31, 1999  
ISSN: 1096-9969  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 918  
PUBLISHER NAME: CMP Media, Inc.  
COMPANY NAMES: \*Microsoft Corp.  
EVENT NAMES: \*331 (Product development)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372420 (Database Software)

INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

Each is racing to deliver **XML** servers and **parsers** or **XML** extensions to their existing enterprise software. Last week, for instance, Microsoft not only announced a summer beta release for its own **XML** server product (BizTalk Server) but also published a blueprint (BizTalk Framework) for converting business objects and application logic into **XML**. It also created a Web site (BizTalk.org) that serves as a quasi-independent clearinghouse for **XML schema**, which describe different kinds of business data.

While experts agree that XML is worth all...

9/5,K/19 (Item 12 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06273029 Supplier Number: 54392119 (USE FORMAT 7 FOR FULLTEXT)  
**DataChannel Releases the Most Advanced XML Parser -- XJParser -- and Introduces xDev its XML Developers Program.**  
Business Wire, p0012  
April 16, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1120  
PUBLISHER NAME: Business Wire  
COMPANY NAMES: \*DataChannel Inc.  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372680 (Internet Software)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
SIC CODES: 7372 (Prepackaged software)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

**DataChannel Releases the Most Advanced XML Parser -- XJParser -- and Introduces xDev its XML Developers Program.**  
... <http://www.datachannel.com/xdev>.  
XJParser becomes the industry's most complete, reliable, and innovative **XML parser** for delivering powerful, server-based enterprise applications utilizing open web-standards. XJParser is the cornerstone...

...capacity to integrate data from any source."

XJ Parser Feature Overview

Extended functionality of XJ **Parser** includes:

-- **XML** 1.0 Standards Compliance with a complete set of W3C interfaces to ensure interoperability with...

...in

one package. -- Supports and extends full XML functionality in Microsoft Internet

Explorer 5.0. -- **Validating** support for DTD's and **XML schema** to verify true and

error-free XML data. -- Exception and Error Handling to handle Java

...

9/5,K/20 (Item 13 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06001682 Supplier Number: 53387559 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft Ties Data Transfers To XML in IE 5.0. (Company Business and Marketing)**  
Gonsalves, Antone  
PC Week, p33(1)

Oct 26, 1998  
ISSN: 0740-1604  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 347  
PUBLISHER NAME: Ziff-Davis Publishing Company  
COMPANY NAMES: \*Microsoft Corp.  
EVENT NAMES: \*331 (Product development)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372000 (Computer Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)  
TICKER SYMBOLS: MSFT  
SPECIAL FEATURES: LOB; COMPANY  
... be transferred via XML between servers and between servers and clients. Each machine needs an **XML parser** that follows standards set by the World Wide Web Consortium.  
Users believe Microsoft will move...

...technology for universal data access.

IE 5.0 also will implement Extensible Style Language and **XML Schema**, standards that have not yet been finalized by the W3C. "Microsoft has put a lot of effort into developing an [ **XML** ] **parser** that gives you improved performance," said Eric Carlson, chief technology officer at Silknet Software Inc...

9/5,K/21 (Item 14 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05993190 Supplier Number: 53364759 (USE FORMAT 7 FOR FULLTEXT)  
**Veo Systems Announces Support For Sun Microsystems' New Java Development Kit With Java-Based Parser; Veo Systems Leads Integration of XML and Java.**

Business Wire, p0011

Dec 8, 1998

Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 390  
PUBLISHER NAME: Business Wire  
COMPANY NAMES: \*Sun Microsystems Inc.; Veo Systems Inc.  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*3573000 (Computers & Peripherals)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
NAICS CODES: 334111 (Electronic Computer Manufacturing)  
SPECIAL FEATURES: LOB; COMPANY

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Inc., a pioneer in the development of open commerce networks, today announced a Java-based **XML parser** that will support Sun Microsystems, Inc.'s next release of its Java(TM) Development Kit...

Due to ship in Q1 of 1999, Veo Systems' **XML parser** will bridge the gap between **XML** and Java by being the first **parser** to support the **Schema** for Object Oriented **XML** (SOX) submission to the W3C **XML - Schema** working group. The Veo **parser** will combine unprecedented speed with **XML** DTD and SOX **validation**.

SOX extends **XML** for e-commerce and distributed computing by adding strong typing, inheritance, global name spaces, and legal attribute values. These extensions enable **validity** checking and facilitate mapping a document to other documents as well as to the rich data **schemas** used in databases and object oriented software applications.

"Veo is leading the way to couple...

...innovative e-commerce and business integration solutions."



Veo Systems is currently accepting applicants for the **XML parser** early access program. Anyone interested in participating should visit Veo's website at [www.veosystems.com/xml / parser / parser .html](http://www.veosystems.com/xml/parser/parser.html)

About Veo Systems, Inc.

Veo Systems is the leading supplier of products and services...

9/5,K/22 (Item 15 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05377826 Supplier Number: 48177913 (USE FORMAT 7 FOR FULLTEXT)  
**First XML Tools Hit Market -- Microsoft indicates language is key to Web application strategy**  
Karpinski, Richard  
InternetWeek, p8  
Dec 15, 1997  
ISSN: 1096-9969  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 883  
PUBLISHER NAME: CMP Media, Inc.  
COMPANY NAMES: \*Microsoft Corp.  
EVENT NAMES: \*350 (Product standards, safety, & recalls)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372512 (Programming Utilities)  
INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)  
NAICS CODES: 51121 (Software Publishers)  
TICKER SYMBOLS: MSFT  
SPECIAL FEATURES: COMPANY

... with renewed vigor the existing XML support in Internet Explorer 4.0, which includes an **XML parser**, support for the **XML Object Model** and XML Data Source Object, which brings XML into the world of IE...

...announced some of the first XML tools:

DataChannel Inc. announced the availability of the DataChannel **XML Development Environment (DXDE)**, including two **XML parsers**, viewers for **XML** and CDF (Channel Definition Format) content, and an **XML server** that supports a database **schema** for managing and distributing meta-data.

A beta version of DXDE is available now for...

9/5,K/23 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

10109247 SUPPLIER NUMBER: 20457851 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**XML to ease Net tensions. (emerges as an independent middleware standard for distributed computing) (Technology Information)**  
Walsh, Jeff  
InfoWorld, v20, n13, p1(2)  
March 30, 1998  
ISSN: 0199-6649 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 462 LINE COUNT: 00039

ABSTRACT: The Extensible Markup Language ( **XML** ) protocol is emerging as an independent middleware standard easing competition in the Internet distributed computing area. Companies including Microsoft and DataChannel are planning to use the standard as a communication link between CORBA and the Component Object Model (COM). DataChannel plans to deliver a tool that enables Java-capable systems to communicate with Windows boxes. The tool can pass **XML** -based COM Document Type Definitions (DTDs) across the Web by using HTTP. The technology used by DataChannel is called WebBroker, and uses a combination of an **XML parser** and a java servlet object request broker to format the request into a COM.DTD. DataChannel intends to submit to the World Wide Web Consortium its DTD **schema** as a technique to manage

distributed computing across **XML** .

COMPANY NAMES: DataChannel--Product development

INDUSTRY CODES/NAMES: BUSN Any type of business; CMPT Computers and Office Automation

DESCRIPTORS: Object-oriented programming--Usage

FILE SEGMENT: CD File 275

ABSTRACT: The Extensible Markup Language ( **XML** ) protocol is emerging as an independent middleware standard easing competition in the Internet distributed computing...

...tool that enables Java-capable systems to communicate with Windows boxes. The tool can pass **XML** -based COM Document Type Definitions (DTDs) across the Web by using HTTP. The technology used by DataChannel is called WebBroker, and uses a combination of an **XML parser** and a java servlet object request broker to format the request into a COM.DTD. DataChannel intends to submit to the World Wide Web Consortium its DTD **schema** as a technique to manage distributed computing across **XML** .

... s WebBroker technology uses a Java servlet as an object request broker combined with an **XML parser** to format the request into a COM DTD. The XML-based method calls and method...

9/5,K/24 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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09976637 SUPPLIER NUMBER: 20086283 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**First XML tools hit market. (extensible markup language standard emerging)**

**(Technology Information) (Brief Article)**

Karpinski, Richard

InternetWeek, n694, p8(1)

Dec 15, 1997

DOCUMENT TYPE: Brief Article

LANGUAGE: English

RECORD TYPE:

Fulltext

WORD COUNT: 946 LINE COUNT: 00077

INDUSTRY CODES/NAMES: BUSN Any type of business; TELC

Telecommunications

DESCRIPTORS: SGML (Document markup language)--Standards

PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software)

SIC CODES: 7372 Prepackaged software

FILE SEGMENT: CD File 275

... with renewed vigor the existing XML support in Internet Explorer 4.0, which includes an **XML parser** , support for the **XML** Object Model and XML Data Source Object, which brings XML into the world of IE...

...announced some of the first XML tools:

DataChannel Inc. announced the availability of the DataChannel **XML** Development Environment (DXDE), including two **XML parsers** , viewers for **XML** and CDF (Channel Definition Format) content, and an **XML** server that supports a database **schema** for managing and distributing meta-data.

A beta version of DXDE is available now for...

9/5,K/25 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02192506 SUPPLIER NUMBER: 20157967 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Coming of age in cyberspace: births, deaths, and milestones at SGML/XML**

**'97. (includes related articles on status of XML standards, Internet World conference and the SGML/XML '97 conference) (Industry Trend or Event)**

Alschuler, Lioria; Alexander, George

Seybold Report on Internet Publishing, v2, n5, p21(14)

Jan, 1998

LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT: 10320      LINE COUNT: 00801

SPECIAL FEATURES: table; illustration  
COMPANY NAMES: Adobe Systems Inc.--Product introduction; ArborText Inc.--Product enhancement; Corel Corp.--Product introduction; ExcOSOFT--Product introduction  
DESCRIPTORS: Trade Show Report; SGML/HTML; Portable Document Software; Software Product Enhancement; Word processing software; File Format Conversion Software  
PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software); 7372505 (Portable Document Software); 7372530 (Disk/File Management Software); 7372682 (Internet Server Software)  
SIC CODES: 7372 Prepackaged software  
TICKER SYMBOLS: ADBE  
TRADE NAMES: Adobe FrameViewer 5.5 (Portable document software)--Product introduction; Adept (Portable document software)--Product enhancement; WordPerfect SGML Edition (Word processing software)--Product introduction; Documentor (Portable document software)--Product introduction; DynaTag 3.0 (File format conversion software)--Product introduction  
FILE SEGMENT: CD File 275

... standard input parsers: James Clark's SP for validating SGML and XML; a non-validating **XML parser**; and RTF Scanner for RTF conversion. Balise already has full Unicode support.

The DTD API...appetite for creative approaches to "fun with structured text."

\* We will get some form of **XML** -data that will give us new methods of expressing architectural forms, inheritance and strong-data typing. **XML** -data will greatly accelerate the integration of structured, application-independent markup with mainstream computer science. This process will be shadowed by tension between those who would trash the SGML-specific **schema** designs of the past in favor of a brave new beginning and those with cooler...

...embodied in a decade of DTD design and for the political protection of the ISO- **validated** standards process. But there are those who would just as soon ditch DTDs for **validation** and replace them with something more akin to database **schemas**.

\* RDF-related efforts will pioneer new ways to represent knowledge through directed graphs in structured...

9/5,K/26      (Item 2 from file: 275)  
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02132818      SUPPLIER NUMBER: 20101050      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**XML: the intersection of documents and databases on the Internet.**  
(eXtensible Markup Language) (includes related article on how XML makes a difference) (Internet/Web/Online Service Information)  
Prescod, Paul  
Databased Web Advisor, v15, n12, p36(4)  
Dec, 1997  
ISSN: 1090-6436      LANGUAGE: English      RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3090      LINE COUNT: 00254

ABSTRACT: eXtensible Markup Language (XML) technology is creating quite a stir in the Internet world because it addresses the convergence of document processing, Web development, EDI, knowledge representation and databases. More extensible than HTML but no more extensible than SGML, XML is a solution propagated but the World Wide Web Consortium to answer the Web's unique challenges. XML is an SGML subset that maintains the central premises of extensible document-type definitions (DTD) and valid, robust documents. The technology is database-friendly, Internet-ready and document-smart. Its implementation is easy and simple. When it is ratified, XML creators are confident that a new generation of cheaper tools will emerge that will assist in the automation of the creation, management,

searching and conversion of XML documents.

DESCRIPTORS: SGML/HTML; Internet/Web Technology

FILE SEGMENT: CD File 275

... be cheaper to implement, opening it to a wider range of people.

The XML makeover

**XML** is the World Wide Web Consortium's answer to the unique challenges of the web environment. **XML** is no more extensible than SGML, but is extensible when compared to HTML, which more people are familiar with. **XML** is a subset of SGML that preserves the central concepts of extensible DTDs and valid, robust documents. **XML** documents typically can be **parsed** and browsed without reference to their DTD ( **schema** ), though they need access to the DTD for **validation** . Opinions vary widely on how important the SGML features left out of **XML** are, but as a whole, the SGML community supports the **XML** standard.

XML has no tag minimization. In many cases, the removal of this option means...than write parsers for a dozen different formats, vendors can write (or download) a single **parser** for **XML** . **XML parser** source code for Java, C++, Python, TCL, and other languages already exists and is freely available. So, most programmers can use XML-based formats without writing a **parser** at all.

**XML**'s semantic framework means that each particular format need not reinvent concepts like element, attribute...

9/5,K/27 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04503771 Supplier Number: 58087806 (THIS IS THE FULLTEXT)

**SUN MICROSYSTEMS: Sun Microsystems leads industry effort to simplify XML development.**

M2 Presswire, pNA

Dec 8, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1686

TEXT:

M2 PRESSWIRE-8 December 1999-SUN MICROSYSTEMS: Sun Microsystems leads industry effort to simplify XML development (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:071299

\* Java 2 Platform Support for the eXtensible Markup Language (XML) dramatically eases the creation of Ecommerce applications

NEW YORK, NY -- Java BusinessSM Conference -- Sun Microsystems, Inc. today made two announcements that underscore its support for the eXtensible Markup Language (XML) with the Java 2 platform: the availability of the Java Application Programming Interface (API) for XML Parsing Optional Package ("JAXP"), and the formation of an expert group for the XML Data Binding project. The expert group for this project, which is going through the Java Community Process, consists of Allaire, Ariba, BEA/Web Logic, Bluestone Software, AOL/Netscape, Extensibility, Fujitsu, IBM, Object Design, Oracle, webMethods and Sun Microsystems. With these announcements, Sun is leading the effort to deliver XML technologies for the Java 2 platform that will ease the creation and maintenance of Java technology-based applications enabled by XML and improve portability of data exchange between disparate business systems.

In 1996, Sun spearheaded an initiative through the W3C to develop the eXtensible Markup Language (XML), a standards-based universal syntax for describing and structuring data in a way that is independent from the application logic. Sun's announcement of the Java technologies for XML provides universal application logic that complements XML. The Java 2 platform and XML are complementary technologies that each have common features critical for industrial-strength Web-based applications, including platform-independence, industry standards, extensible, reusable, and global language support. Together, the Java 2 platform and XML will allow

enterprises to simplify and lower the cost of information sharing and exchange in Web applications.

"In today's '.com' world, customers want to build applications with the assurance of both data and business logic interoperability within a heterogeneous environment. The Java 2 platform and XML provide the open, standards-based technologies to help ensure this interoperability without locking developing into proprietary environments." said George Paolini, Vice President, Java Community Development, Sun Microsystems. "The Java 2 platform and XML provide the open, standards-based technologies are helping to ensure this interoperability without locking developers into proprietary environments."

#### Simpler, Faster Enterprise Development with the Java 2 Platform and XML

The Java API for XML Parsing ("JAXP") Optional Package allows developers to easily build Java-based applications enabled by XML for e-commerce, enterprise application integration, and web publishing. An API is the interface through which a software program accesses an operating system, and is an essential layer for ensuring code portability. An optional package is a standard Java API that is not part of the Java Runtime Environment but can be optionally added depending on specific application needs. JAXP is now in early access release and available free-of-charge at <http://java.sun.com/xml>. The final version of JAXP is scheduled to ship in the first quarter of 2000.

The JAXP optional package provides basic functionality for reading, manipulating, and generating XML documents through pure Java APIs. Seamlessly integrated with the Java 2 platform, JAXP provides a standard way for a Java platform-based application to plug in any **XML**-conformant **parser**. While the reference implementation uses Sun's experimental high performing Java Project X as its default **XML parser**, the software's pluggable architecture allows any **XML**-conformant **parser** to be used, such as the **xml.apache.org XML parser**, code named Xerces. (For information on this community project to which Sun donated technology, please visit [www.apache.org](http://www.apache.org))

As part of Sun's ongoing commitment to industry developed standards, JAXP is fully conformant to XML standards from the W3C and the XML community. JAXP is being developed through the Java Community Process ("JCP"), which is the formalization of the open process that Sun has been using since 1995 to develop and revise Java technology specifications in cooperation with the international community of developers using Java technologies.

Sun also announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML**-enabled applications with a minimum of development effort. Project Adelard provides a two-way mapping between **XML** documents and Java technology-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by a system. Thus, not only will developers be able to more easily develop and process Java technology-based applications that leverage **XML**, but enterprises will also lower costs through more productive development.

As with JAXP, Project Adelard is being developed through the JCP. Sun is working with the W3C XML Schema Group and other standards consortia, such as OASIS and XML.org. The specification and reference implementation for Project Adelard are under development by the expert group. Project Adelard will be available during the second quarter of 2000.

Customers and press interested in hearing more details about Sun's announcements should attend Sun's XML session "Overview of XML in the Java 2 Platform" and "XML in the Enterprise (J2EE)" at the Java BusinessSM Conference, Wednesday, December 8, from 9:00 am -- 10:15 am and 10:30am -- 11:45am, respectively.

About Sun Microsystems, Inc.

Since its inception in 1982, a singular vision "The Network Is The Computer" -- has propelled Sun Microsystems, Inc. (Nasdaq: SUNW), to its

position as a leading provider of industrial-strength hardware, software and services that power the Internet and allow companies worldwide to ".com" their businesses. With \$12.4 billion in annual revenues, Sun can be found in more than 170 countries and on the World Wide Web at <http://www.sun.com>.

#### About the Java Business Conference

Don't miss the upcoming Java Business (SM) Conference, December 7 - 9, 1999 at the Jacob Javits Convention Center in New York City. The Java software industry, as well as enterprise customers of these vendors, will showcase their end-to-end enterprise solutions built on the Java platform. This three-day event is an intense educational conference that will enable attendees to make better informed decisions on their web business strategies, including how to leverage XML with the Java platform. The conference will also highlight both proven and new industry products that build upon the power of the Java platform. For more information, or to register, please visit <http://www.javabusinessconference.com> or call 1-888-886-8309.

Sun, Sun Microsystems, the Sun logo, The Network Is The Computer, Java, and Java Business are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and in other countries. Press announcements and other information about Sun Microsystems are available on the Internet via the World WideWeb using a tool such as Netscape Navigator or Sun's HotJava browser. Type <http://www.sun.com> at URL prompt.

#### XML Data Binding Project -- Expert Group

"Bluestone is totally committed to Java as an application platform and XML as a data interchange standard. By leading the efforts to simplify the creation and maintenance of XML-enabled Java applications, Sun reaffirms the value of uniting these two technologies for the benefit of enterprise developers. Bluestone plans to provide complete support for the Java API for XML Parsing, and as a member of the Adelard expert group, we plan to fully participate in the XML Data Binding project."

Bob Bickel senior vice president of products Bluestone Software, Inc.

"Project Adelard is a significant step forward for the XML community and we are excited to support this development initiative. Furthering XML will enable the technology to be heavily leveraged in the areas of e-commerce, business-to-business computing and syndication. Allaire's experiences and successes using the data-centric XML technology known as Web Distributed Data Exchange (WDDX) nicely complement Project Adelard and will further contribute to advancing the widespread adoption of XML within mainstream corporations. Sun's leadership in this area will help to ensure XML's role in protecting companies investments in Java and XML from the current standards debate."

Simeon Simeonov chief architect Allaire Corporation

"The Java Project X parser implementation is a key component of Ariba's Java XML solution. JAXP extends Sun's parsing technology and will make our job easier as we leverage XML in building out our open, global platform for B2B eCommerce. We look forward to evolving the API through our participation in the XML Data Binding group."

Doug Bunting cXML standards manager Ariba Corporation

"For JAVA users, this is a natural way of facilitating the integration of XML into that environment. Using schema as a basis to map information from XML representation into the object-oriented world underscores the central purpose of schema in XML business initiatives."

Lee Buck CTO Extensibility, Inc.

"XML technology provides a cost-effective, cross-platform approach to improved data exchange which is becoming more and more critical to enterprise applications. We see XML as reality in the market today; our intra-company system has partially been adapted to XML already, while we are working with a number of major companies to help them revamp their systems by using XML and internet technology. We are pleased that Sun has been driving this effort; XML and the Java platform are a perfect match, fueling new generation web applications, such as e-commerce."

Noboru Urano director of XML product development Fujitsu Limited

"We recognize the importance of Java and XML as strategic languages for B2B applications. eXcelon, which has full support for the XML standards and Java, welcomes this initiative to marry platform independent processing with platform independent data."

Larry Alston vice president of marketing Object Design  
"webMethods is dedicated to providing customers with seamless  
business-to-business e-commerce and integration solutions. We are pleased  
to be part of the Adelard XML expert group. By creating a basis for rapid  
development of XML-enabled JAVA technology applications, Adelard will  
provide a valuable contribution to the rapid deployment of e-commerce  
strategies."

Charles Allen vice president of product marketing webMethods, Inc.  
CONTACT: Susan Struble Tel: +1 408 343 1814 e-mail:  
susan.struble@eng.sun.com

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PUBLISHER NAME: M2 Communications Ltd.

COMPANY NAMES: \*Sun Microsystems Inc.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*3573000 (Computers & Peripherals)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,  
International)

SIC CODES: 3571 (Electronic computers)

NAICS CODES: 334111 (Electronic Computer Manufacturing)

TICKER SYMBOLS: SUNW

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As with JAXP, Project Adelard...

9/5,K/28 (Item 2 from file: 636)

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04452037 Supplier Number: 56062845 (THIS IS THE FULLTEXT)

**INFORMIX: Informix XML-enables Internet Fo Foundation.2000.**

M2 Presswire, pNA

Oct 7, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 909

TEXT:

M2 PRESSWIRE-7 October 1999-INFORMIX: Informix XML-enables Internet  
Foundation.2000 (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:061099

\* Defines roadmap for XML strategy

JACOB JAVITS CENTER, NEW YORK, NY -- Fall Internet World -- October  
6, 1999 -- Informix Corporation (NASDAQ: IFMX), the technology leader in

enterprise database-powered solutions today announced support in Informix Internet Foundation.2000 for eXtensible Markup Language (XML), the Worldwide Web Consortium (W3C) standard for universal data exchange. With XML, Internet Foundation.2000 customers will be able to integrate existing data with their new E-commerce applications and efficiently exchange data with their customers, partners, and suppliers. Informix also announced its strategy to support XML across all of its products to deliver the easiest and fastest way to build and integrate applications and data for the new i.Economy.

Businesses are now moving their focus from electronic storefronts to streamlining their supply chain processes through business-to-business integration. With this migration, infrastructure requirements become more and more complex. XML is a metadata-rich way of representing data that is understandable to both humans and machines. It facilitates the increasing need for the tighter integration of intracompany applications and the evolving requirements for seamless inter-company communications.

More specifically, Informix today announced:

XML support in Internet Foundation.2000 - Available immediately, XML is supported through the newest version of the Informix Web DataBlade module. The Web DataBlade module enables Informix Internet Foundation.2000 to generate dynamic XML data and documents via a familiar SQL interface. As a result, Internet Foundation.2000 users can easily and seamlessly publish XML data over the Internet. XML can now be delivered in a scalable way to an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

Hierarchical XML Data Storage - Allows Internet Foundation.2000 users the ability to import, export, store and query/index XML structures in their native hierarchical format. It provides a unique performance advantage over other approaches to storing XML documents in flat relational tables, where the use of a document's structures when processing queries is lost. Hierarchical XML data storage is open to any Java XML parser and integrates XML with pre-existing database schema. An early developer's release will be made available later this year through the Informix Developers Network (<http://www.informix.com/idn>).

XML Product Roadmap - In the first half of the year 2000, Informix will deliver other XML-enabled products, including a server-based workflow engine that supports the communication of XML documents and enables rules to be embedded in documents for exception handling or processing. An XML metadata repository is also in development, which will make metadata uniformly accessible to tools and applications, regardless of the data source. Other XML-related standards like XSL, XML Schema, XML Query Language (XQL), XML Linking, and XML Infoset are planned to be supported as they are finalized by the W3C.

"XML is critical to building Web solutions that share data across multiple applications, platforms, and tiers. Informix has the unique capability of handling XML content natively within the database, preserving its structure for maximum performance and flexibility," said Bill Hostmann, director of product management and marketing at Informix. "By combining Java and XML support directly in the database, Informix is delivering the foundation for Web solutions supporting any data on any platform across all tiers."

Informix Internet Foundation.2000 stands out from other database solutions for the "fit" between its core extensibility and companies' evolving Internet-enabled database needs. By supporting XML, Internet Foundation.2000 delivers the fastest, easiest, high performance and scalable XML data-driven Internet applications in the market today.

"Informix is poised to establish a leadership position in XML data management with their unique approach that involves combining XML storage in its native hierarchical format with business data stored in a fully relational manner," said Carl Olofson, Research Director, International Data Corporation. "The performance one can gain in this structure will be relevant in efficient XML-based access to data and data interchange, making the Informix Internet Foundation.2000 a forerunner in data management for the Internet age."

Informix also announced its membership in the W3C and the Organization for the Advancement of Structured Information Standards (OASIS). The W3C was founded to develop common protocols to enhance the



interoperability and lead the evolution of the World Wide Web. OASIS is a nonprofit, international consortium dedicated to accelerating the adoption of product-independent formats based on public standards like XML.

"As the leading technology provider of database solutions, Informix brings a valuable perspective to the work of the Consortium. We welcome their contributions, particularly as we develop the XML.org Registry and Repository," noted Laura Walker, executive director of OASIS. "Participation in OASIS is crucial for any company with an interest in the success of XML. The growing diversity of OASIS membership reflects the degree to which XML is affecting the industry."

#### About Informix

Informix Corporation, based in Menlo Park, California, provides innovative database products that assist the world's major corporations to attain competitive advantage. Informix is widely recognized as the technology leader for corporate computing environments ranging from small workgroups to very large parallel processing applications. Informix's database server, application development tools, superior customer service, and strong partnerships enable the company to be at the forefront of major information technology solution areas including data warehousing, high performance OLTP, and Web/e-commerce. For more information, contact the sales office nearest you or visit our Web site at [www.informix.com](http://www.informix.com)

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GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: IFMX

... an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

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9/5,K/29 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04450806 Supplier Number: 56026556 (THIS IS THE FULLTEXT)

**INFORMIX SOFTWARE: Informix XML-enables Internet Foundation.2000.**

M2 Presswire, pNA

Oct 6, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 923

TEXT:

M2 PRESSWIRE-6 October 1999-INFORMIX SOFTWARE: Informix XML-enables Internet Foundation.2000 (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:061099

\* Defines Roadmap for XML Strategy

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brings a valuable perspective to the work of the Consortium. We welcome their contributions, particularly as we develop the XML.org Registry and Repository," noted Laura Walker, executive director of OASIS. "Participation in OASIS is crucial for any company with an interest in the success of XML. The growing diversity of OASIS membership reflects the degree to which XML is affecting the industry.

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SIC CODES: 7372 (Prepackaged software)

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9/5,K/30 (Item 4 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04429359 Supplier Number: 55745388 (THIS IS THE FULLTEXT)

**MICROSOFT: Windows DNA 2000 provides pervasive XML su support for next-generation web development.**

M2 Presswire, pNA

Sept 14, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1088

TEXT:

M2 PRESSWIRE-14 September 1999-MICROSOFT: Windows DNA 2000 provides pervasive XML support for next-generation web development (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:130999

\* Microsoft Deepens Commitment to XML as Industry-Standard Integration Mechanism

REDMOND, Wash. -- Microsoft Corp. today expanded its industry-leading commitment to eXtensible Markup Language (XML) with a series of announcements for far-reaching XML support in Windows Distributed interNet

Architecture (Windows DNA) 2000, the next generation of the Microsoft platform for building distributed Web applications. XML, an industry-standard technology developed by the Worldwide Web Consortium (W3C), enables heterogeneous interoperability of data, components, business processes and applications over the Internet.

The Microsoft Windows 2000 operating system, the cornerstone of Windows DNA 2000, is the first operating system with integrated, end-to-end XML support. Key products of the Windows DNA 2000 solution will offer new features and functionality based on XML, including Microsoft SQL Server, the "Babylon" Integration Server, Microsoft Commerce Server and Microsoft BizTalk Server. The key enabler for Microsoft's vision of integrated, programmable Web services is XML. Through the exchange of XML messages, services can easily describe their capabilities and allow any other service, application or device on the Internet to easily invoke those capabilities. To help realize that vision, Microsoft today is submitting to the Internet Engineering Task Force (IETF) an Internet draft specification for the Simple Object Access Protocol (SOAP), an XML-based mechanism that bridges different object models over the Internet and provides an open mechanism for Web services to communicate with one another.

"XML is a key enabler for a new generation of Internet opportunities, linking together applications, services and devices," said Paul Maritz, group vice president, Developer Group, Microsoft. "Through our universal support for XML, Microsoft is making these opportunities a reality for Web developers today." Microsoft Builds on Long-Standing Commitment to XML To date, Microsoft has actively participated in the W3C's creation and standardization of XML and has aggressively delivered XML support in its products. For example, Microsoft Internet Explorer was the industry's first browser software to support XML. For developers, Microsoft provides a standalone, redistributable version of MSXML, a general purpose **XML parser** that lets any application easily manipulate XML information. In addition, Microsoft recently created the MSDN XML Developer Center, which offers developers tools and resources to help them take advantage of XML. Finally, with dozens of industry partners, customers and standards bodies, Microsoft has helped develop the BizTalk Framework to accelerate the adoption and use of XML for e-commerce and enterprise application integration.

Following is a summary of Microsoft initiatives and products supporting XML:

Windows 2000. Windows 2000 is the first operating system with integrated, high-performance XML support for easy data exchange between disparate businesses and enterprise systems. XML support can be found throughout Windows 2000, which includes a built-in, high-performance **parser**, support for **XML** streaming and persistence, XML record-set translation, and support for building XML data islands in Internet Explorer 5.0. SOAP. To help developers build Web services and link heterogeneous components over the Internet, Microsoft worked with industry experts to create the Simple Object Access Protocol. SOAP provides an open, extensible way for applications to communicate using XML-based messages over the Web, regardless of what operating system, object model or language particular applications may use. SOAP facilitates universal communication by defining a simple, extensible message format in standard XML and thereby providing a way to send that XML message over HTTP. Microsoft is soliciting industry feedback on version 0.9 of the SOAP specification, which can be found at <http://msdn.microsoft.com/xml/>.

SQL Server 7.0. Microsoft is tightly integrating XML into the SQL Server RDBMS to help developers build the next generation of Web and enterprise applications and plans to deliver a technology preview with XML integration and direct URL access to SQL Server 7.0 on the MSDN XML Developer site in the fourth quarter of 1999. This will enable queries to be sent directly to SQL Server 7.0 via a URL, with the results returned as XML-formatted documents. The technology preview will be available in the fourth quarter of 1999 and will be downloadable from the MSDN XML Developer Center. The next version of SQL Server, code-named "Shiloh," will be fully XML-enabled and will include a superset of the features available in the technology preview for SQL Server 7.0. SQL Server "Shiloh" is scheduled to be available in mid-2000.

"Babylon" Integration Server. Microsoft announces XML Transaction

Integrator (XML-TI), a new feature of the forthcoming "Babylon" integration server that enables customers to easily integrate and commerce-enable their existing enterprise applications via XML. XML-TI allows developers to easily invoke transactions on a host with XML without having to change any existing host code or write any new code. XML-TI consists of a runtime proxy and a component builder that generates an XML document interface for executing legacy CICS and IMS transactions. In addition, a Babylon SDK will provide the ability to create XML-TI components for other legacy transaction environments. The "Babylon" integration server is scheduled to be available by mid-2000.

MSDN **XML** Developer Center. Microsoft has launched a new Web site to centrally provide developers with all the tools and resources they need to be successful leveraging **XML** in their Web and enterprise applications. The new MSDN **XML** Developer Center, at <http://msdn.microsoft.com/xml/>, will bring together the rich set of tools and resources Microsoft provides to make it easier for developers to work with **XML**, including the MSXML **parser**, the fastest **XML parser** available on the market today. This will allow developers to create flexible and open solutions that easily enable data interoperability and exchange. BizTalk. The BizTalk Framework makes it easy for businesses to exchange information between software applications, integrate business processes, and conduct business over the Internet with trading partners and customers. With today's announcement of the opening of the BizTalk.Org **schema** library on <http://www.biztalk.org>, customers and partners can get started today using the BizTalk Framework. Today's related announcement provides more details. The forthcoming Microsoft BizTalk Server will provide the tools and infrastructure to support the efficient interchange of BizTalk-compatible business documents.

Founded in 1975, Microsoft (Nasdaq "MSFT") is the worldwide leader in software for personal computers. The company offers a wide range of products and services for business and personal use, each designed with the mission of making it easier and more enjoyable for people to take advantage of the full power of personal computing every day.

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PUBLISHER NAME: M2 Communications

COMPANY NAMES: \*Microsoft Corp.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

... support XML. For developers, Microsoft provides a standalone, redistributable version of MSXML, a general purpose **XML parser** that lets any application easily manipulate XML information. In addition, Microsoft recently created the MSDN...XML support can be found throughout Windows 2000, which includes a built-in, high-performance **parser**, support for **XML** streaming and persistence, XML record-set translation, and support for building XML data islands in...transaction environments. The "Babylon" integration server is scheduled to be available by mid-2000.

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9/5,K/31 (Item 5 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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04150427 Supplier Number: 54416939 (THIS IS THE FULLTEXT)  
**DATACHANNEL: DataChannel releases the most advanced XML parser XJParser and introduces xDev program.**

M2 Presswire, pNA

April 19, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 921

TEXT:

M2 PRESSWIRE-19 April 1999-DATACHANNEL: DataChannel releases the most advanced **XML parser** XJParser and introduces xDev its XML developers program (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:160499

Bellevue WA -- DataChannel announced today the immediate availability of XJParser a cornerstone of its XML Toolkit for XML Framework. Formerly referred to as the DataChannel XJ2 Parser, the new release adds substantial functionality with significant improvements in performance. XJParser becomes the industry's most complete, reliable, and innovative **XML parser** for delivering powerful, server-based enterprise applications utilizing open web-standards. DataChannel's joint development agreement with Microsoft allows DataChannel to independently extend the functionality and performance of XJParser to cross-platform environments making DataChannel the first company to offer cross-platform parser functionality.

With over 5,000 beta users, XJParser has been utilized in a diverse set of scenarios from small department applications to large commercial enterprise applications. Csoft International, an advanced applications vendor, is using XML and the XJParser to create standard data formats for their applications. They provide state-of-the-art software solutions for the retail industry, which gather point-of-sale and other transaction profiling information. Data originates from various sources and Csoft needed a cutting edge solution to access these multiple information stores.

"Our products must be capable of exchanging information with a wide range of disparate systems from legacy based to architectures using the latest emerging technologies," said Terry Bissonette, senior software engineer, CSoft International. "The XJParser showcases XML as an ideal data exchange medium to the standards bodies and peer vendors in our industry. We have used it to build a general framework that manages the simultaneous exchange of XML data with one or more trading partners. We are looking forward to implementing the new XJParser with its improved performance and are confident it will extend our capacity to integrate data from any source."

**XJ Parser** Feature Overview Extended functionality of **XJ Parser** includes: **XML** 1.0 Standards Compliance with a complete set of W3C interfaces to ensure interoperability with applications and web-based technologies. Simple API for **XML** (SAX) 1.0 to optimize performance parsing large documents utilizing an event-based API. Additional support for third-party SAX drivers is also included. Integrated eXtensible Stylesheet Language (XSL) processor providing seamless, integrated **XML** parsing and transformation in one package. Supports and extends full **XML** functionality in Microsoft Internet Explorer 5.0. **Validating** support for DTD's and **XML schema** to verify true and error-free **XML** data. Exception and Error Handling to handle Java exceptions as well as trapping errors for developer productivity.

Advanced query language support through emerging W3C standards support like data typing, XSL pattern matching, and node transformation. Developers will also enjoy tremendous support with comprehensive documentation, integrated sample libraries, technical support and host of other benefits introduced in xDev DataChannel's new developers program.

XJParser can be downloaded from DataChannel at  
<http://www.datachannel.com/xDev> Introducing xDev

DataChannel also announces the XML Developers Site, providing early adopter developers direct access to leading edge XML resources from cutting edge XML developers. To provide fellow developers with the best in tools,

techniques and tips, DataChannel is creating a web site highlighting the latest tools and expertise in the XML arena. DataChannel's one stop shop for XML knowledge will also include analysis & explanations of the latest W3C Standards and Proposals, discussion groups on the hottest topics, and the tools and technologies which simplify XML development. In addition, DataChannel will offer creative support and co-marketing arrangements to help developers leverage their ideas towards the advancement of XML and their professional growth. Many of these ideas contributed to the rich functionality of the new XJParser. These new offerings will be rolled out in xDev and are described on. The site will be operational May 15, 1999. Developers should take the opportunity today to download the XJParser and give DataChannel input on key elements of xDev and to extend the standardization and state-of-the-art of XML technology.

"We continue to push ourselves to remain the innovative leaders in the XML market space but we cannot do it alone. Our success is dependent upon the thousands of expert developers that understand this technology and know how to create real business solutions with it. Although we will lead the way, the true value of xDev comes from the sharing of ideas and technology amongst the XML development community. We are committed to creating a world class forum that can bring together the greatest minds and ideas in the XML world," said Tim Gelinas, vice president of development who will oversee the xDev program.

#### Overview of DataChannel's XML Framework

DataChannel's XML Framework is an extensive portfolio of enterprise solutions designed to capitalize on the Information Economy through the use of the Extensible Mark-up Language (XML). This XML Framework creates universal access to mission-critical structured information as well as the ever-increasing amount of unstructured data.

#### About DataChannel, Inc.

DataChannel Inc., founded in 1996, is a privately held company. It is a value-added integrator of XML-based, market-leading Information Management solutions and services that facilitate the way companies share information with employees, vendors, customers, and consumers across intranets, extranets and the Internet. These solutions are offered through DataChannel's XML Framework, an extensive portfolio of enterprise solutions designed to capitalize on the Information Economy through the use of the Extensible Markup Language (XML). It includes RIO, an Enterprise Information Portal solution connecting users of the portal to relevant information sources. DataChannel simplifies the process of delivering critical information to the right people at the right time.

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PUBLISHER NAME: M2 Communications

COMPANY NAMES: \*DataChannel Inc.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372680 (Internet Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

(USE FORMAT 7 FOR FULLTEXT)

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TEXT:

M2 PRESSWIRE-19 April 1999-DATACHANNEL: DataChannel releases the most advanced **XML parser** XJParser and introduces xDev its XML developers program (C)1994-99 M2 COMMUNICATIONS LTD

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9/5,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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02018645 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**First XML Tools Hit Market**

(Microsoft unveiled its XML strategy indicating that the language will be key to its Web application strategy)

InternetWeek, p 8

December 15, 1997

DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 878

**ABSTRACT:**

Future prospects collided with real-world developments on the Extensible Markup Language ( XML ) front, as the spec for the emerging language moved closer to a standard and vendors released some of the first XML tools. Microsoft has positioned the language as a key element in its Web application strategy. The Society of Automotive Engineers and the Telecommunications Industry Forum announced plans to define an XML -based vocabulary for describing its industry-standard data. That represents one of the first major corporate end-user commitments to XML . At a recent conference, Microsoft pushed with renewed vigor the existing XML support in Internet Explorer 4.0, which includes an XML parser , support for the XML Object Model and XML Data Source Object, which brings XML into the world of IE 4.0 data-binding. Microsoft's Office team also said it would use XML -along with standard HTML-to help solve the format compatibility that has plagued the Office suite through each subsequent upgrade. Microsoft rival Netscape has been focused on using XML to solve the so-called info-glut problem, describing the use of the XML -based Resource Description Framework (RDF) as a key meta-data component for describing and cataloging various types of content as part of its next-generation client, code-named Aurora. Meanwhile, several vendors shipped or announced some of the first XML tools: DataChannel Inc announced the availability of the DataChannel XML Development Environment (DXDE), including two XML parsers , viewers for XML and CDF (Channel Definition Format) content, and an XML server that supports a database schema for managing and distributing meta-data. Poet Software Corp unveiled an SGML/ XML object database repository that is currently in beta and due to ship in the first quarter. SoftQuad Inc. announced a new Live Database Pages (LDP) feature for its HotMetaL Pro 4.0 authoring tool, which can use XML as a description language for returned database queries. ArborText Inc previewed Cedar, its XML style sheet technology, which it proposed as a potential W3C standard in September along with Microsoft. Adobe Systems Corp said it would add support for XML next year as part of its update to its FrameMaker 5.5 and FrameMaker+SGML 5.5 publishing. Perspecta Inc announced support for XML within its Perspecta SmartContent System information warehousing platform. Chrystal Software added XML support to its Astoria content management platform, which, up to now, has been used to manage content created from most popular SGML editors.

**TEXT:**

COMPANY NAMES: ARBORTEXT INC; DATACHANNEL; MICROSOFT CORP; NETSCAPE COMMUNICATIONS CORP; POET SOFTWARE CORP; SOFTQUAD INC

INDUSTRY NAMES: Software

PRODUCT NAMES: Development support software packages (737224)

CONCEPT TERMS: All product and service information; Product development; Product introduction

GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**ABSTRACT:**

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#### TEXT:

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A beta version of DXDE is available now for...

9/5,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01908529 05-59521

\*\*USE FORMAT 9 FOR FULL TEXT\*\*

**Informix to support XML in all its products**

Lattig, Michael

InfoWorld v21n41 PP: 16 Oct 11, 1999 ISSN: 0199-6649 JRNL CODE: IFW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

WORD COUNT: 421

ABSTRACT: Informix plans to rely on standards, especially the Extensive

Markup Language (XML), to help stake out territory in a database market fast becoming the exclusive domain of industry giants. Following last month's introduction of its Internet Foundation 2000 database, Informix's first foray into XML support, the company now is expanding that message with plans to incorporate XML across its entire product line.

COMPANY NAMES:

Informix Corp (DUNS:16-087-0648)

GEOGRAPHIC NAMES: US

DESCRIPTORS: Software industry; Data base management systems; Market strategy; Extensible Markup Language

CLASSIFICATION CODES: 9190 (CN=United States); 8302 (CN=Software and computer services); 7000 (CN=Marketing)

...TEXT: format.

An early developer's release of the capability, which is open to any Java-**XML** **parser** and integrates **XML** with pre-existing database **schemas**, will be available online later this year through the Informix Developers Network.

Further down the...

9/5,K/3 (Item 2 from file: 15)

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01784429 04-35420

\*\*USE FORMAT 9 FOR FULL TEXT\*\*

**An XML framework for agent-based e-commerce**

Glushko, Robert J; Tenenbaum, Jay M; Meltzer, Bart

Communications of the ACM v42n3 PP: 106-109+ Mar 1999 ISSN: 0001-0782

JRNL CODE: ACM

DOC TYPE: Journal article LANGUAGE: English LENGTH: 8 Pages

SPECIAL FEATURE: Charts References

WORD COUNT: 3967

ABSTRACT: CommerceNet's eCo system initiative, launched in 1996, aims to transform the World Wide Web into an agent-based infrastructure for Internet commerce. Today's Web gives people unprecedented access to online information and services. But its information is delivered in format-oriented, handcrafted hypertext markup language, making it understandable only through human eyes. Software agents and search engines have difficulty using the information because it is not semantically encoded. Tomorrow's Web will use the extensible markup language to encode information and services with meaningful structure and semantics that computers can readily understand. In Internet commerce, companies will use XML documents for publishing everything from product catalogs and airline schedules to stock reports and bank statements.

DESCRIPTORS: Intelligent agent; Electronic commerce; Hypertext;

Applications; Document delivery; World Wide Web

CLASSIFICATION CODES: 5250 (CN=Telecommunications systems)

...TEXT: XML for integration extends beyond the Web to email, database records, and programming APIs. An **XML** **parser** imposes the same API on any XML data source, eliminating much of the need for... commerce applications and facilitate their interoperation.

When creating CBL, we found it helpful to extend **XML** with a **schema** language. The extensions add strong typing to **XML** elements so content can be readily **validated**. For example, an element called CPU...

... integer with a set of valid values: 100, 133, 166, 200, 233, 266 Mhz.

The **schema** language also adds class-subclass hierarchies, so information is readily instantiated from class definitions. A...

... battery life. These and other extensions facilitate data entry, as well as automated translations between **XML** and traditional object-oriented and relational data models.

Trading partners not only have to agree...

... Following the service definition in Figure 4, when a company submits a purchase order, the **XML parser** in the eCo server uses the purchase order DTD po . dtd to transform the purchase...

9/5,K/4 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01777415 04-28406

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**Microsoft tools offering more support for XML**

Kiely, Don

Informationweek n720 PP: 84-90 Feb 8, 1999 ISSN: 8750-6874 JRNL CODE: IWK

DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages

SPECIAL FEATURE: Diagrams

WORD COUNT: 1610

ABSTRACT: Internet Explorer was the first product to use Microsoft's **Extensible Markup Language (XML)** dynamic link library and to make those features available to outside developers. Now, Microsoft has introduced an updated MSXML.DLL. Besides closer adherence to the various approved and proposed standards, the new version of MSXML has a number of features that make it easier for developers to create applications that use **XML**. The latest release includes searching capabilities to support complex queries of **XML** data. New **schema** features allow aggregation of existing **schemas** into more complex **schemas**. They support XSL for formatting data, but also support a default style sheet to display data when no XSL file is specified. The core enabling technology in MSXML is the **XML parser**, which Microsoft has released in beta form in C++ and Java. The **parser** is the means by which developers access **XML**'s object model. The **XML parser** reads the data in an **XML** document and makes its components available through the **XML** object model or through data-binding features.

**COMPANY NAMES:**

Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)

**GEOGRAPHIC NAMES:** US

**DESCRIPTORS:** Extensible Markup Language; Dynamic link libraries; Software upgrading

**CLASSIFICATION CODES:** 9190 (CN=United States); 9120 (CN=Product specific); 5240 (CN=Software & systems)

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...TEXT: data when no XSL file is specified.

The core enabling technology in MSXML is the **XML parser**, which Microsoft has released in beta form in C++ and Java. The parser is the means by which developers access XML's object model.

The **XML parser** reads the data in an XML document and makes its components available through the XML...

9/5,K/5 (Item 4 from file: 15)  
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01750161 04-01152

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**XML-Java combo continues to interest vendors**

Walsh, Jeff

InfoWorld v20n52/1 PP: 10 Dec 28, 1998/Jan 4, 1999 ISSN: 0199-6649

JRNL CODE: IFW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

WORD COUNT: 409

ABSTRACT: Ever since developers first introduced the Extensible Markup Language (XML) and Java to each other in early 1998, this pair has become the industry's hottest couple, making combined appearances in tools and applications with increasing regularity. These days, more and more industry heavyweights - including Microsoft, DataChannel, IBM, and Lotus - are pairing up the 2 technologies. Microsoft and DataChannel in late December 1998 announced the 2nd beta release of their co-developed **XML parser** written in Java.

**COMPANY NAMES:**

DataChannel Inc

IBM Corp (DUNS:00-136-8083 TICKER:IBM)

Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)

Lotus Development Corp (DUNS:01-185-0484 TICKER:LOTS)

GEOGRAPHIC NAMES: US

DESCRIPTORS: Java; Product development; Programming languages;

Manycompanies; Product testing; Extensible Markup Language

CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)  
; 7500 (CN=Product planning & development)

...ABSTRACT: and DataChannel in late December 1998 announced the 2nd beta release of their co-developed **XML parser** written in Java.

...TEXT: Microsoft and DataChannel in late December announced the second beta release of their co-developed **XML parser** written in Java. And IBM and Lotus delivered the LotusXSL processor, which includes the Extensible ...

... The XQL support allows querying of information within an XML document, the officials said.

The **parser** also fully supports the W3C's Document Object Model recommended proposal, in addition to **XML schemas**, which define the elements within an **XML** data set. The **parser** can also run on the server to enable passing data across disparate servers and platforms...

9/5,K/6 (Item 5 from file: 15)  
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01664858 03-15848

**\*\*USE FORMAT 9 FOR FULL TEXT\*\***

**XML stakes out Web future**

Piven, Joshua

Computer Technology Review v18n6 PP: 1, 44+ Jun 1998 ISSN: 0278-9647

JRNL CODE: CTN

DOC TYPE: Journal article LANGUAGE: English LENGTH: 3 Pages

WORD COUNT: 1401

**ABSTRACT:** Extensible Markup Language (XML) is the future of the Web, although how distant a future at this point is an open question. XML is not really a programming language but rather a metalanguage: it is a language used to describe languages. XML 1.0 was recommended as a standard by the W3C in February. XML's basic premise is that information should be based on the data it uses, not in the way that data is displayed - as is the case with HTML. Tags can be defined within a document itself, rather than only in the base language specification. And the tags can be used to define any type of information. It provides a way to organize and present highly complex and specially formatted information in a standard way.

**DESCRIPTORS:** Internet; Programming languages; Hypertext

**CLASSIFICATION CODES:** 5240 (CN=Software & systems); 8302 (CN=Software and computer services)

**...TEXT:** the rules of an XML document, including element names, element combinations, and the element attributes.

**Schemas** also provide an improved method of making **XML**-based data self-describing to applications that don't already contain built-in descriptions of the data. **XML**-Data also provides a mechanism by which developers can further specify characteristics about particular elements. This allows developers to augment **schemas** with additional information such as data types, inheritance, **validation** and presentation rules. In essence, it is a way to make **XML** more object-oriented so that developers have a standard way to augment **XML** data.

**XML Tools**

Both Microsoft and Netscape Communications Corp. are heavily involved in XML development...

... Conference '98 in Seattle, a number of companies introduced XML tools, and there are several **XML parsers** that have recently become available, some of which can be downloaded for free (for non...

... for Java ([www.alphaworks.ibm.com/formula/xml](http://www.alphaworks.ibm.com/formula/xml)), Norbert Mikula's NXP, a Java-based **XML parser** ([www.edu.uniklu.ac.at/~nmikula/NXP](http://www.edu.uniklu.ac.at/~nmikula/NXP)), Tim Bray's Java-based Lark, ([www.textuality...](http://www.textuality...) add support in the next revision," Patel says. "But the problem will be how the **XML parsers** [in the browsers] will implement XML support."

For instance, Microsoft has said that they will...

**9/5,K/7 (Item 6 from file: 15)**

DIALOG(R) File 15:ABI/Inform(R)

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01584230 02-35219

**\*\*USE FORMAT 9 FOR FULL TEXT\*\***

**DataChannel's betas support XML standard**

Walsh, Jeff

InfoWorld v20n7 PP: 20 Feb 16, 1998 ISSN: 0199-6649 JRNL CODE: IFW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

WORD COUNT: 270

**ABSTRACT:** DataChannel Inc. delivered 2 beta products last week. The beta release of DataChannel **XML Parser** 1.0 is a Java-based **XML parser**

that enables server-side XML parsing and integration. The beta release of ChannelManager 2.0 combines an open API and multiple client support to provide enterprises with a tool that integrates legacy databases, document-management systems, new feeds, PC applications, URLs, and e-mail into a functional intranet.

COMPANY NAMES:

DataChannel Inc

GEOGRAPHIC NAMES: US

DESCRIPTORS: Product testing; Software packages; Computer upgrading;

Computer programming; Systems integration

CLASSIFICATION CODES: 9190 (CN=United States); 9000 (CN=Short Article);

7500 (CN=Product planning & development); 5240 (CN=Software & systems)

ABSTRACT: DataChannel Inc. delivered 2 beta products last week. The beta release of DataChannel **XML Parser** 1.0 is a Java-based **XML parser** that enables server-side XML parsing and integration. The beta release of ChannelManager 2.0...

...TEXT: 0 specification as a standard. (See related article, page 54.)

The beta release of DataChannel **XML Parser** 1.0 is a Java-based **XML parser** that enables server-side XML parsing and integration. Application developers can use the parser to make their applications XML-aware by importing XML data into their data structure.

The DataChannel **XML Parser** is part of the DataChannel **XML Developer Toolkit**, which will be available this quarter and also includes the Pax Syntactica, a lightweight **XML parser**; the DataChannel **XML Viewer**, an applet that uses the Pax Syntactica **parser** to enable users to walk and view **XML** tree data; the **XML Server**, a server that supports a database **schema** for managing and distributing meta data; and a CDF Viewer demo, a preview of the...

9/5,K/8 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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06852429 Supplier Number: 58049605 (USE FORMAT 7 FOR FULLTEXT)

**Sun Microsystems Leads Industry Effort to Simplify XML Development.**

PR Newswire, p6237

Dec 7, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1114

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*Sun Microsystems Inc.

PRODUCT NAMES: \*3573000 (Computers & Peripherals)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 3571 (Electronic computers)

NAICS CODES: 334111 (Electronic Computer Manufacturing)

TICKER SYMBOLS: SUNW

SPECIAL FEATURES: LOB; COMPANY

... JAXP provides a standard way for a Java platform-based application to plug in any **XML** -conformant **parser**. While the reference implementation uses Sun's experimental high performing Java Project X as its default **XML parser**, the software's pluggable architecture allows any **XML** - conformant **parser** to be used, such as the **xml.apache.org XML parser**, code named Xerces. (For information on this community project to which Sun donated technology, please...

...announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML** -enabled applications with a minimum of

development effort. Project Adelard provides a two-way mapping between **XML** documents and Java-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by...

...developers be able to more easily develop and process Java technology-based applications that leverage **XML**, but enterprises will also lower costs through more productive development.

As with JAXP, Project Adelard...

9/5,K/9 (Item 2 from file: 16)  
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06851217 Supplier Number: 58043047 (USE FORMAT 7 FOR FULLTEXT)  
**Architag International Corp. Announces xRay, a New XML Editor.**  
Business Wire, p0585  
Dec 6, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 400  
PUBLISHER NAME: Business Wire  
COMPANY NAMES: \*Architag International; XRAY  
PRODUCT NAMES: \*3843000 (Dental Equipment & Supplies)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
SIC CODES: 3843 (Dental equipment and supplies)  
NAICS CODES: 339114 (Dental Equipment and Supplies Manufacturing)  
SPECIAL FEATURES: LOB; COMPANY

... tool that allows users and developers to look inside their XML documents the way the **XML parser** does." The product's speed means that it can also be used by professional keyboarders...

...windows can be displayed, each containing its own XML document.

xRay works with well-formed **XML** documents, but also **validates** according to different types of **schemas**. "One of the breakthroughs in xRay is the ability to create and modify a document type definition (DTD) **schema**, but also create and **validate** against **XML** Data, a **schema** submission to the W3C," said Travis. "xRay is also the first **XML** editor that verifies rich datatypes, like numbers and dates, against the **XML** Data **schema**."

XML is a specification owned by the World Wide Web Consortium. XML can be used...

9/5,K/10 (Item 3 from file: 16)  
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06813274 Supplier Number: 57598835 (USE FORMAT 7 FOR FULLTEXT)  
**Apache Software Foundation launches XML open-source project. (Industry Trend or Event)**  
Messmer, Ellen  
Network World, pNA  
Nov 15, 1999  
ISSN: 0887-7661  
Language: English Record Type: Fulltext  
Document Type: Tabloid; Trade  
Word Count: 496  
PUBLISHER NAME: Network World, Inc.  
COMPANY NAMES: \*International Business Machines Corp.  
EVENT NAMES: \*600 (Market information - general)  
GEOGRAPHIC NAMES: \*1USA (United States)



PRODUCT NAMES: \*7372000 (Computer Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: LOB; COMPANY

The Apache Software Foundation is making **XML parsers** and document conversion tools from several vendors, including IBM and Sun, available for free at **xml.apache.org** so that customers can use them to build in-house applications or commercial products. The main purpose is to promote interoperability in **XML** data exchange as the World Wide Web Consortium (W3C) continues to work on new standards, such as **XML Schema**, which is part of the **XML** standards suite, IBM says.

IBM is making two of its **XML parsers** available at the Apache site "to bring about the best possible innovation from the open...

...a proprietary approach to XML, which lets programmers generate format-neutral documents using tools, including **XML parsers**, for conversion to HTML, EDI or database formats.

"Microsoft has been pressuring us to do...

...Java or the C programming language, respectively.

- Sun's Java Project X and its XHTML **Parser**, for generating **XML**, a reformulated HTML 4.0 in XML 1.0, and now a W3C draft...

?t s11/5,k/1-29

11/5,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01956127 46593053

\*\*USE FORMAT 9 FOR FULL TEXT\*\*

**DSML helps directories work together**

Hay, Todd

Network World v16n47 PP: 47 Nov 22, 1999 ISSN: 0887-7661 JRNL CODE:  
NWW

DOC TYPE: Periodical; Commentary LANGUAGE: English RECORD TYPE: Fulltext

LENGTH: 1 Pages

SPECIAL FEATURE: Chart

WORD COUNT: 616

ABSTRACT: Directories are being enabled to operate across corporate boundaries, pointing users to services wherever they exist. To accomplish this work, directories need to be able to speak a common language. Enter Directory Services Markup Language (DSML), the emerging standard that expresses directory content in XML. DSML defines the XML schema for describing directory structure and data. Applications consume DSML documents as they would XML because DSML is a subset of XML. Applications can transmit DSML documents to other DSML-enabled applications on the Internet. This process effectively extends the Lightweight Directory Access Protocol across firewalls to any Internet transport protocol.  
GEOGRAPHIC NAMES: United States; US

DESCRIPTORS: Network directories; Extensible Markup Language; Standards;  
Interoperability; Electronic commerce

CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)  
; 5250 (CN=Telecommunications systems)

PRINT MEDIA ID: 15378

...TEXT: World Wide Web Consortium and the BizTalk initiative - is being pushed by Bowstreet Software, IBM, **Microsoft**, Novell, Oracle and the Sun-Netscape Alliance. DSML defines the XML schema for describing directory ...

...third language both directories speak, XML.

A real-life DSML transaction might begin with an **XML** -enabled application making an HTTP request to a Web service that queries a directory through LDAP or directory APIs. The resulting DSML document (containing directory data) is returned to the **XML** application over the Web. The application then **parses** the **XML** using standard Extensible Stylesheet Language to integrate the directory data into a purchase order form, for example, within the application. With DSML, an **XML** application could request data and **schema** information from directories and consolidate this into one document.

To DSML-enable their directories, network...

11/5,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01877263 05-28255

\*\*USE FORMAT 9 FOR FULL TEXT\*\*

**BizTalk could spur XML and e-business**

Kiely, Don

Informationweek n749 PP: 74-76 Aug 23, 1999 ISSN: 8750-6874

JRNL CODE: IWK

DOC TYPE: Journal article LANGUAGE: English LENGTH: 2 Pages

WORD COUNT: 1541

ABSTRACT: To further capitalize on the growing interest in **Extensible Markup Language (XML)**, **Microsoft Corp.** in May 1999 introduced BizTalk, a design framework for **XML**. The current version, 0.81, consists of 4 documents: BizTalk Framework **XML** Tag Specification, BizTalk Framework Document Design Guide, **XML Schema** Developer's Guide, and a guide to a scheme canonical format. **Microsoft** makes clear that **XML**, not BizTalk, is the specification. So while **XML** provided the structure, BizTalk provides the dialects and dictionaries to make sense of the content. BizTalk data is shared among applications. Version 0.81 of the specifications contains 3 major elements: the framework description, a repository for BizTalk **schemas**, and requirements for submitting **schemas** to automated **validation** bots.

COMPANY NAMES:

**Microsoft Corp** (DUNS:08-146-6849 TICKER:MSFT)

GEOGRAPHIC NAMES: US

DESCRIPTORS: Extensible Markup Language; Specifications; Electronic mail systems

CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems); 9120 (CN=Product specific)

ABSTRACT: To further capitalize on the growing interest in **Extensible Markup Language (XML)**, **Microsoft Corp.** in May 1999 introduced BizTalk, a design framework for **XML**. The current version, 0.81, consists of 4 documents: BizTalk Framework **XML** Tag Specification, BizTalk Framework Document Design Guide, **XML Schema** Developer's Guide, and a guide to a scheme canonical format. **Microsoft** makes clear that **XML**, not BizTalk, is the specification. So while **XML** provided the structure, BizTalk provides the dialects and dictionaries to make sense of the content...

... 81 of the specifications contains 3 major elements: the framework description, a repository for BizTalk **schemas**, and requirements for submitting **schemas** to automated **validation** bots.

TEXT: Headnote:

**Microsoft** makes big investment in latest XML framework

BizTalk, **Microsoft** 's new electronic-commerce framework for XML schemas, attempts to provide flexible data exchange between...

... for all members of that industry, such as auto manufacturers, building contractors, or clothing wholesalers.

**Microsoft** is strongly behind XML, as demonstrated by the addition of native data support to develop...

... result, XML documents are a native format in the Internet Explorer 5.0 Web browser. **Microsoft** also serves on the World Wide Web Consortium's XML standard committee.

To further capitalize on the growing interest in XML, **Microsoft** in May introduced BizTalk, a design framework for XML. By developing an XML schema under...

... Design Guide, XML Schema Developer's Guide, and a guide to a schema canonical format.

**Microsoft** makes clear that XML, not BizTalk, is the specification. So while XML provides the structure...

... processes, particularly those that cross application or organizational boundaries. As such, it fits nicely into **Microsoft** 's Windows DNA architecture for widely distributed applications, providing the means for exchanging data, particularly...

...connection, using any communication protocols available.

In addition to XML standardization, business is clearly driving **Microsoft**

's interest in BizTalk-in particular, the BizTalk Server. Slated to ship sometime after Windows...

... reliable transport of XML data. BizTalk Server and schemas go hand in hand. Crucial to **Microsoft** 's continued growth in servers is the ability to let customers exchange data with partners, a key part of its E-commerce initiatives.

As they do with other **Microsoft** servers, developers can write software to interact with BizTalk Server and manipulate document routing, security, and other features according to tags marking content. **Microsoft** certainly has something to gain from the success of XML and the BizTalk initiative-but...

...HTML documents, all opening tags must have a corresponding closing tag.

Messaging transport systems such as **Microsoft** 's own Message Queue, released with the Windows NT 4.0 Option Pack and a...

... DTDs. It describes data types and supports the XML namespaces specification. XMLData was proposed by **Microsoft** and ...kind of data specification for XML is likely to be adopted by the W3C, and **Microsoft** has pledged to support the final specification.

Automated Validation

All of the work developing a...

... is still missing a few complete features, such as message sequencing, security, and privacy protections.

**Microsoft** has set up a steering committee-not a standards body, it emphasizes-consisting of customers...

... building an information repository for XML schemas, both BizTalk and otherwise, at [www.XML.org](http://www.XML.org).

**Microsoft** and Oasis, as well as other industry stakeholders in XML's success, claim BizTalk and Oasis do not compete, particularly because **Microsoft** is going after only schemas that comply with the BizTalk specification and Oasis is open to anyone who takes the time to develop a valid DTD. In fact, **Microsoft** recently became a member of Oasis, but has so far deferred making the recommended \$100,000 contribution to the development and operation of XML.org.

Server sales are spurring **Microsoft** to do all of this work developing specifications and automating a repository for the good...

... is it trying to define new standards, other than those submitted to the W3C. And **Microsoft** even promises to publish the XML schema and message formats used by Office and BackOffice. With **Microsoft** 's clout behind it, there's a good chance both XML and BizTalk will benefit.

Sidebar:

**Microsoft** 's XML Design Framework  
Some of BizTalk's main features and benefits:

Defines a framework...

COMPANY NAMES:

**Microsoft** Corp...

11/5,K/3 (Item 3 from file: 15)  
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01852946 05-03938

\*\*USE FORMAT 9 FOR FULL TEXT\*\*

**Working to bring effective E-Commerce standards into the energy industry with BizTalk**

Manikundalam, Ravi

Oil & Gas Journal Windows in Energy Supplement PP: 27 Summer 1999

ISSN: 0030-1388 JRNL CODE: OGJ

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

WORD COUNT: 549

**ABSTRACT:** The BizTalk framework builds upon industry standards like **XML** and **XML - Schema** . Its objectives are to enable higher levels of semantically **validatable** information exchange, design reuse of information models and process models, and provide interoperability between **XML** -based solutions.

**DESCRIPTORS:** Electronic commerce; Standards; Interoperability; Petroleum industry

**CLASSIFICATION CODES:** 5250 (CN=Telecommunications systems); 8510

(CN=Petroleum industry); 9000 (CN=Short Article)

**ABSTRACT:** The BizTalk framework builds upon industry standards like **XML** and **XML - Schema** . Its objectives are to enable higher levels of semantically **validatable** information exchange, design reuse of information models and process models, and provide interoperability between **XML** -based solutions.

...**TEXT:** be summed up in one word: BizTalk.

The BizTalk Framework builds upon industry standards like **XML** and **XML - Schema** . Its objectives are to enable higher levels of semantically **validatable** information exchange, design reuse of information models and process models, and provide interoperability between **XML** -based solutions.

The BizTalk Framework will be first seen as a set of modeling, design...

... application-to-application or business-to-business information interchange protocol specification.

A set of Tools **Microsoft** is developing is targeted at enabling distributed collaborative development of information models and interchange agreements between applications and/or trading partners. Finally, the BizTalk Server **Microsoft** is developing is targeted at enabling middleware and transport-neutral, secure, scalable information interchange between...

11/5,K/4 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01687725 03-38715

**\*\*USE FORMAT 9 FOR FULL TEXT\*\***

**DCDs to help in building three-tier Web XML apps**

Walsh, Jeff

InfoWorld v20n34 PP: 50 Aug 24, 1998 ISSN: 0199-6649 JRNL CODE: IFW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

SPECIAL FEATURE: Charts

WORD COUNT: 373

**ABSTRACT:** **Microsoft** Corp. and IBM have submitted Extensible Markup Language (XML) Document Content Descriptions (DCD) to the World Wide Web Consortium. DCDs provide similar functionality to Document Type Definitions, which XML initially inherited from its Standard Generalized Markup Language roots. However, DCDs further support other XML-friendly standards, such as Resource Description Framework.

**COMPANY NAMES:**

**Microsoft** Corp (DUNS:08-146-6849 TICKER:MSFT)

IBM Corp(DUNS:00-136-8083 TICKER:IBM)

**GEOGRAPHIC NAMES:** US

DESCRIPTORS: Standardization; Web sites; Programming languages  
CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)  
; 7500 (CN=Product planning & development)

ABSTRACT: **Microsoft** Corp. and IBM have submitted Extensible Markup Language (XML) Document Content Descriptions (DCD) to the...

TEXT: **MICROSOFT** AND IBM have submitted a proposal to the World Wide Web Consortium (W3C) for describing...

...Framework, XML-Data and XML Namespaces. (See chart, below.)

DCDs are also written in an **XML** syntax, unlike DTDs. This enables a common markup language for both the DCD and the **XML** **schema** it represents, but also the same **parser** can be used for both the DCD and the **XML** data.

According to **Microsoft**, DCDs will be necessary for any developers looking to build three-tier Web applications using...

... provides that a DTD does not," said David Wascha, product manager for platform marketing at **Microsoft**.

Wascha noted that DCDs have support for database and programming style prototypes. For example, in...

... whereas DTDs allow you to do very generic description of a document," Wascha said.

Neither **Microsoft** nor DCD coauthor Tim Bray would go so far as to say that DCD would...

... strong answer either way to that question would have rocks in their head,' Bray said.

**Microsoft** Corp., in Redmond, Wash., can be reached at (425) 882-8080 or <http://www.microsoft.com>. IBM, in Armonk, N.Y., can be reached at (914) 765-1900 or <http://www.ibm.com>.

COMPANY NAMES:

**Microsoft** Corp...

11/5,K/5 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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07380583 Supplier Number: 60301533 (USE FORMAT 7 FOR FULLTEXT)

**Own Your Own Island. (Technology Tutorial) (Tutorial)**

Anderson, Eric Binary

ENT, v4, n20, p16

Nov 17, 1999

ISSN: 1085-2395

Language: English Record Type: Fulltext Abstract

Article Type: Tutorial

Document Type: Magazine/Journal; Professional

Word Count: 822

ABSTRACT:

**Microsoft** Internet Explorer 5.0 lets Web developers create **XML** 'data islands' that perform sophisticated data transformations. A data island is an **XML** document with a unique identifier referenced or included within an HTML page that stores a dynamic representation temporarily in the client browser document model each time the page is **parsed**; this scheme eliminates the need to call a Web server every time the browser needs even a small transformation. Basic code for creating a data island is presented. Data islands can store information other than simple data, such as **schemas** and extensible style sheets, and can be used in a wide variety of applications. They are often used to present query results with client-side filtering and sorting. One problem is the lack of support for data islands

in browsers other than IE 5.0.

PUBLISHER NAME: Boucher Communications, Inc.

EVENT NAMES: \*330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811529 (Online Services NEC)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

SIC CODES: 4822 (Telegraph & other communications)

NAICS CODES: 514191 (On-Line Information Services)

TRADE NAMES: **Microsoft** Internet Explorer 5.0 (Web browser)

ABSTRACT:

**Microsoft** Internet Explorer 5.0 lets Web developers create **XML** 'data islands' that perform sophisticated data transformations. A data island is an **XML** document with a unique identifier referenced or included within an HTML page that stores a dynamic representation temporarily in the client browser document model each time the page is **parsed**; this scheme eliminates the need to call a Web server every time the browser needs...

...data island is presented. Data islands can store information other than simple data, such as **schemas** and extensible style sheets, and can be used in a wide variety of applications. They...

... tag (less than)XML(greater than), but this tag will cause errors in older browsers. **Microsoft** also supports an alternate syntax using the familiar (less than)SCRIPT(greater than) tag, but...

...than)/XML(greater than)

Data islands are not restricted to storing data, per se. Because **XML schemas** and extensible style sheets (XSL) are also described using **XML**, you can create an archipelago that includes **schema** islands and layout islands, as well. XSL can easily redefine the look of your data by transforming a data island into HTML. **XML schemas** can be used to ensure that data in an island follows a prescribed format. The...

...data islands and the document object model (DOM), you can create, read, modify, transform, and **validate** data with little programming. Moreover, all this work can be done without a roundtrip to...

...data islands is the specialty grammar Vector Markup Language (VML) proposed by AutoDesk, Hewlett-Packard, **Microsoft**, Macromedia, and Visio. VML allows embedding high-quality vector drawings within a Web page.

I...

TRADE NAMES: **Microsoft** Internet Explorer 5.0 (Web browser)

11/5,K/6 (Item 2 from file: 16)

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07052885 Supplier Number: 58378494 (USE FORMAT 7 FOR FULLTEXT)

**SoftQuad's XMetaL: XML Word Processing Comes into Focus. (Product Announcement)**

Alschuler, Liora

The Seybold Report on Internet Publishing, v3, n11, pNA

July, 1999

ISSN: 1090-4808

Language: English Record Type: Fulltext

Article Type: Product Announcement

Document Type: Newsletter; Trade

Word Count: 3154

PUBLISHER NAME: Seybold Publications, Inc.

COMPANY NAMES: \*SoftQuad Inc.

EVENT NAMES: \*336 (Product introduction)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372682 (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

NAICS CODES: 51121 (Software Publishers)  
TRADE NAMES: XMetal (Web authoring software)  
SPECIAL FEATURES: COMPANY

... may have little or no training in XML. Another target is editorial groups in which **Microsoft** Word is producing copy that will eventually be converted to XML and will need to...the standard within the browser which, at present, is a choice between grim and grimmer. **Microsoft** 's Internet Explorer 5 supports fonts, bold, italic and colors, but not much else, including...5, which will let you write your own tag names. Arbortext calls this "free-form **XML** editing," and it will be in the next release of Epic and ADEPT. Although it...

...writing, which is interesting coming in parallel with increased interest in support for the W3C **Schema** activity. With **schemas**, SoftQuad will be able to provide richer **validation**, including data types, which is closer to the business logic that people are trying to...

11/5,K/7 (Item 3 from file: 16)  
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06857356 Supplier Number: 58113549 (USE FORMAT 7 FOR FULLTEXT)  
**Extensibility's XMLschema.com Goes Live; New Site Provides Ubiquitous Support for Managing and Exchanging XML-Based E-Business Grammars.**

Business Wire, p0600

Dec 9, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 671

PUBLISHER NAME: Business Wire

COMPANY NAMES: Extensibility Inc.; **Microsoft** Corp.

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

SPECIAL FEATURES: LOB; COMPANY

... management and exchange of e-business grammars.

Initial services provided on the site include Extensibility **XML schema validation** and conversion services.

"XML schemas are becoming the intellectual property of e-business," said Reid...

...and adoption of rules for information interchange."

Current service offerings on the site include:

-- Extensibility **Validation** Services: Users can test **XML schemas** for

syntactical validation and receive reports confirming validity or reporting errors.

-- Extensibility Conversion Services: Users...

...schema dialects, enabling

exchange of XML grammars across heterogeneous environments.

Initially, XMLschema.com will support **Microsoft** 's XDR and BizTalk, Commerce One's Common Business Library and SOX schema dialect, and Document Type Definitions (DTDs).

**Microsoft** 's BizTalk.org initiative leverages XMLschema.com to help automate the posting of **validated schemas** for the BizTalk framework.

"The BizTalk Framework aims to accelerate the adoption of **XML schemas**," said James Utzschneider, director of business frameworks for **Microsoft**.

"XMLschema.com hosts the first commercially available services to provide schema validation and conversion services..."



...XML schemas provide e-commerce applications contracts enabling certain transaction automation.

About BizTalk

Introduced by **Microsoft** (Nasdaq:MSFT) in March, the BizTalk Framework makes it easy for businesses to exchange information...

...an XML schema and a set of XML tags used in messages sent between applications.

**Microsoft**, other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), Commerce One (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>), Quark (<http://www...>

COMPANY NAMES: Extensibility Inc.; **Microsoft** Corp.

11/5,K/8 (Item 4 from file: 16)

DIALOG(R) File 16:Gale Group PROMT(R)

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06853535 Supplier Number: 58061900 (USE FORMAT 7 FOR FULLTEXT)

**DataChannel and Extensibility Partner to Advance XML Leadership;**

**Extensibility to Support PML 1.0; DataChannel Extends Training.**

Business Wire, p0571

Dec 7, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 724

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*DataChannel Inc.; Extensibility Inc.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372680 (Internet Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

SPECIAL FEATURES: COMPANY

... exchange from disparate systems, differing schemas, and e-business applications.

Extensibility, the foremost authority on **XML Schema** management, will create a **validated schema** for DataChannel's Portal Markup Language 1.0. (PML 1.0). PML 1.0 has...

...first industry standard markup language for content display and management by an Enterprise Information Portal.

**XML** Authority (TM), Extensibility's unparalleled **schema** processing and **validation** server will contain PML 1.0 support in its next release.

DataChannel will accelerate its...

...for our respective customers," said Lucie Fjeldstad, chief executive officer, DataChannel Inc."Extensibility excels at **schema** processing and we give customers a way to manage those **validated XML** documents with our portal."

"Our customers are developing some amazing applications with our products. This...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>) and Quark ([www.quark...](http://www.quark...)

11/5,K/9 (Item 5 from file: 16)  
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06853060 Supplier Number: 58056576 (USE FORMAT 7 FOR FULLTEXT)  
Microsoft **Announces Finalized BizTalk Framework.**  
PR Newswire, p6679  
Dec 7, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1367  
PUBLISHER NAME: PR Newswire Association, Inc.  
COMPANY NAMES: **Microsoft** Corp.  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372000 (Computer Software)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
SIC CODES: 7372 (Prepackaged software)  
NAICS CODES: 51121 (Software Publishers)  
TICKER SYMBOLS: MSFT  
SPECIAL FEATURES: LOB; COMPANY

(USE FORMAT 7 FOR FULLTEXT)  
Microsoft **Announces Finalized BizTalk Framework.**  
TEXT:  
**Microsoft** Teams With Customers, Partners and Industry Standards Bodies To  
... BizTalk Framework and Accelerate Adoption of XML-Enabled E-Commerce  
REDMOND, Wash., Dec. 7 /PRNewswire/ -- **Microsoft** Corp. (Nasdaq:  
MSFT) today announced availability of the BizTalk(TM) Framework Document  
Specification 1.0...

...framework based on Extensible Markup Language (XML) schemas and industry  
standards for sharing information. The **Microsoft** (R) BizTalk Framework  
provides specifications for the design and development of XML-based  
solutions for...

...systems regardless of the platform, operating system or the underlying  
technology of their existing systems.  
**Microsoft** submitted the BizTalk Framework Document Specification  
1.0 to the BizTalk Steering Committee -- composed of...

...of business today," said Charles Fitzgerald, director of business  
development for the Developer Division at **Microsoft** . "Getting different  
applications to 'talk' to each other is a major technical hurdle, which has  
...

...and routing information. They act as an "envelope" for the business  
information to be transmitted. **Microsoft** , other software companies and  
industry-standard bodies will use the BizTalk Framework to produce XML...

...Technologies Inc., Data Interchange Standards Association (DISA), J.D.  
Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft** , New Era of Networks  
(NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp.,  
RosettaNet...

...about the BizTalk Framework is available at <http://www.biztalk.org/>.  
More information about the **Microsoft** BizTalk Framework initiatives is  
available at <http://www.microsoft.com/industry/biztalk/>.

About the BizTalk.Org Web Site

The BizTalk.Org Web site serves as the online reference for the  
BizTalk Framework specifications, **schemas** , reference materials, tools,  
sample applications and a community newsgroup. The Web site is an open  
repository for the submission and publication of **XML schemas** , business  
documents and messages expressed in **XML** . The **schemas** allow  
organizations to exchange documents in generally understood business  
terminology and integrate the data from...

...documents with their existing applications. In addition, the Web site

provides an updated submission and **schema validation** process. Users can freely use **XML schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema**. Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

#### About **Microsoft**

Founded in 1975, **Microsoft** is the worldwide leader in software for personal and business computing. The company offers a...

...to empower people through great software - any time, any place and on any device.

NOTE: **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein...

...chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework."

- Peter Hoversten

Senior Vice President for Product Strategy

New Era of Networks Inc that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications...

...a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/10 (Item 6 from file: 16)  
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06807381 Supplier Number: 57569988 (USE FORMAT 7 FOR FULLTEXT)

#### **Sun-Netscape Alliance Unveils Solutions for Developing Internet Trading Communities.**

PR Newswire, p5245

Nov 15, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1342

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: \*Netscape Communications Corp.; Sun Microsystems Inc.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*3573000 (Computers & Peripherals); 7372000 (Computer Software); 7372640 (Electronic Commerce Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 3571 (Electronic computers); 7372 (Prepackaged software)

NAICS CODES: 334111 (Electronic Computer Manufacturing); 51121 (Software Publishers)

TICKER SYMBOLS: NSCP; SUNW

SPECIAL FEATURES: LOB; COMPANY

... to address these requirements.

The Alliance will leverage Edifecs Commerce's SpecBuilder product, the dominant **schema** -authoring suite in the market, to help enable customers to rapidly create new transaction sets for EDI, **XML** and other file formats that meet diverse trading partner requirements. Additionally the Alliance will use Edifecs Commerce's Message **Validation** technology, giving users the ability to verify compliance of their partner's data files' established **schemas** and message guidelines.

Leveraging technology from Receipt.com, the Alliance will deliver next generation authentication...on the industry's most widely available product platforms, including DEC, HP, IBM, Linux, SGI, **Microsoft** Windows, and Sun. The Alliance software product portfolio includes: messaging and calendar, collaboration, web, application...

11/5,K/11 (Item 7 from file: 16)  
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06797788 Supplier Number: 57509703 (USE FORMAT 7 FOR FULLTEXT)  
**Icon Information-Systems Announces Release of Version 3.0 of XML Spy Product.**

Business Wire, p0107

Nov 11, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 430

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Icon Information Systems

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SPECIAL FEATURES: COMPANY

Icon Information-Systems announces the release of version 3.0 of its highly-acclaimed **XML** Spy product, which will be showcased at COMDEX, Las Vegas, next week. **XML** Spy is a professional **validating XML** editor that lets you edit all **XML**, **XSL**, **Schema**, and DTD files and provides four integrated views on the documents:

-- The Enhanced Grid and...

...American Express, Andersen Consulting, Compaq, Dell, Ernst&Young, Gateway, GTE, Hitachi, HP, IBM, JP Morgan, **Microsoft**, NTT, Oracle, Siemens, Sony, and Toshiba.

Version 3.0 includes a broad range of new...

11/5,K/12 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06781596 Supplier Number: 57228078 (USE FORMAT 7 FOR FULLTEXT)  
**Extensibility Continues to Rule the XML e-Business Vocabularies and Grammar Space; Releases XML Authority 1.1.**

Business Wire, p0001

Nov 4, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 469

PUBLISHER NAME: Business Wire

COMPANY NAMES: \*Extensibility Inc.

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SPECIAL FEATURES: COMPANY

... the use of XML schema to ensure the integrity of automated transactions and information interchange.

" **XML** Authority 1.1's support for all major **XML** **schema** dialects provides users much needed interoperability as **XML** becomes the mainstream means for e-business content exchange," said Reid Conrad, president and CEO of Extensibility. "We will soon be complementing **XML** Authority 1.1 with automated Internet-based processors for e-business rules **validating** and conversion."

Major enhancements to XML Authority 1.1 include:

-- Interoperability across all major schema dialects including DTDs, **Microsoft**

's XDR and BizTalk-compatible framework, Commerce One's SOX Versions 1 and 2, and...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>), Quark ([www.quark.com](http://www.quark.com)...).

11/5,K/13 (Item 9 from file: 16)  
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06683117 Supplier Number: 55921992 (USE FORMAT 7 FOR FULLTEXT)  
**aecXML Project Unites Broad Coalition; Committees on Two Continents Moving Forward at Rapid Pace, Continuing on the Work Initiated by Bentley.**  
Business Wire, p1221  
Sept 30, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 918  
PUBLISHER NAME: Business Wire  
COMPANY NAMES: **Microsoft** Corp.  
PRODUCT NAMES: \*7372000 (Computer Software)  
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)  
SIC CODES: 7372 (Prepackaged software)  
NAICS CODES: 51121 (Software Publishers)  
TICKER SYMBOLS: MSFT  
SPECIAL FEATURES: LOB; COMPANY

**Microsoft Validates Importance of XML Schemas**

Founding members of the aecXML Project today provided details concerning the rapid progress being made...  
...the aecXML Project occurred September 15, 1999, simultaneously in Dallas, Texas and Reading, UK, via **Microsoft** 's satellite teleconference facilities. Participants hailed the meeting as an unqualified success, and were quick...

...representing every major type of organization in A/E/C, came to the first meeting.

**Microsoft** is indirectly involved in the establishment of aecXML through its BizTalk initiative, a repository of a number of XML "dialects" created by specific commercial interest groups.

**Microsoft** president Steve Ballmer was quoted in the Wall Street Journal on September 16th as saying...

...in on the fact that it was XML." The paper reported that Ballmer announced that **Microsoft** is reorienting most of its software development around XML.

Since the first aecXML Project meeting...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/14 (Item 10 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06653731 Supplier Number: 55819372 (USE FORMAT 7 FOR FULLTEXT)  
**Microsoft 's XML-based plan could slip on SOAP standard. ( Microsoft 's Windows DNA 2000 Web authoring software, Simple Object Access Protocol) (Product Announcement)**  
Coffee, Peter  
PC Week, p1  
Sept 20, 1999  
ISSN: 0740-1604  
Language: English Record Type: Fulltext  
Article Type: Product Announcement  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 384  
PUBLISHER NAME: Ziff-Davis Publishing Company  
COMPANY NAMES: **Microsoft** Corp.  
EVENT NAMES: \*336 (Product introduction)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372682 (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)  
TRADE NAMES: **Microsoft** Windows DNA 2000 (Web authoring software)  
SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)

**Microsoft 's XML-based plan could slip on SOAP standard. ( Microsoft 's Windows DNA 2000 Web authoring software, Simple Object Access Protocol) (Product Announcement)**

TEXT:

Buried beneath the hoopla of **Microsoft** Corp.'s Windows DNA 2000 debut last week was an unsung XML-based protocol whose industry acceptance is vital to **Microsoft** 's vision.

Developers will have to make the usual choice, however, between taking the fullest advantage of **Microsoft** 's interface standards and tools or preserving their IT independence.

Enterprise IT architects have reason for concern in the promise of programmable interaction that isn't blocked by firewalls, which **Microsoft** describes as the mission of its proposed Extensible Markup Language-based SOAP (Simple Object Access...

...as digital signing of service offers and requests, in any so potentially promiscuous approach.

If **Microsoft** fulfills its commitment to a Web-standard process for SOAP, **Microsoft** will not enjoy a commanding advantage in SOAP-based products and services but tools such...

...2000, will appar ently integrate SOAP to a high degree. The difference between multivendor and **Microsoft** -only systems may turn out to be analogous to that between raw SQL database access and access to server-side stored procedures.

**XML** data formats and algorithms, at the foundations of future products, could let **Microsoft** retain the performance edge of all-**Microsoft** IT suites without asking enterprise sites to resist the appeal of vendor- neutral standards. But current **XML** **schemata** merely agree on names for particular kinds of data so that collections from different sources can be **parsed** by distributed logic on multiple tiers.

SOAP (a draft specification, currently labeled Version 0.9...

...to piggyback a distributed object protocol on top of HTTP," in the words of a **Microsoft** white paper released two weeks ago. SOAP requests and responses would use HTTP and therefore...

...separate server port, which could be blocked by a firewall.

SOAP messages are in what **Microsoft** Vice President Paul Maritz called the "open, self-describing" format of XML, meaning that any...  
...and any component architecture can play. Literally, this is likely to prove the case.

But **Microsoft** 's team is clearly already in training and at many sites, **Microsoft** platforms and technologies will draw the lines on the field. **Microsoft** is certainly not giving itself any handicap in the contest.

COMPANY NAMES: **Microsoft** Corp.

TRADE NAMES: **Microsoft** Windows DNA 2000 (Web authoring software)

11/5,K/15 (Item 11 from file: 16)  
DIALOG(R) File 16:Gale Group PROMT(R)  
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06538354 Supplier Number: 55349706 (USE FORMAT 7 FOR FULLTEXT)  
**Development & Integration. ( Microsoft 's BizTalk electronic commerce platform) (Product Information)**  
ENT, v4, n13, p14  
July 19, 1999  
ISSN: 1085-2395

Language: English      Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Professional  
Word Count:    717

ABSTRACT:

**Microsoft** launches its [www.BizTalk.org](http://www.BizTalk.org) in an effort to support its emerging BizTalk Framework electronic commerce platform. BizTalk is touted as a framework for application integration and electronic commerce, and has as one of its principal goals the participation of companies in its **XML schema**. The site will also provide an automated **validation** process to ensure that a given company's **schema** is BizTalk compatible. BizTalk, however, is concerned that vendors adopt the same method for describing their semantics: using BizTalk tags and design parameters. The approach is similar to convincing vendors to use the same programming language.

PUBLISHER NAME: Boucher Communications, Inc.

COMPANY NAMES: **Microsoft** Corp.

EVENT NAMES: \*240 (Marketing procedures)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software); 7372640 (Electronic Commerce Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

SPECIAL FEATURES: LOB; COMPANY

ADVERTISING CODES: 57 New Products/Services

**Development & Integration. ( Microsoft 's BizTalk electronic commerce platform) (Product Information)**

ABSTRACT:

**Microsoft** launches its [www.BizTalk.org](http://www.BizTalk.org) in an effort to support its emerging BizTalk Framework electronic...

...commerce, and has as one of its principal goals the participation of companies in its **XML schema**. The site will also provide an automated **validation** process to ensure that a given company's **schema** is BizTalk compatible. BizTalk, however, is concerned that vendors adopt the same method for describing...

... up whole new worlds for software development." And now, due to some recent announcements from **Microsoft**, you're probably thinking that I was a hired straight man, setting up the pins so **Microsoft** could knock them down. But I was framed! And the framework in question is **Microsoft**'s BizTalk.

Word about the BizTalk framework crept out of Redmond a few months ago. Like some past **Microsoft** initiatives, notably DNA, BizTalk seemed to be yet another high-concept marketing plan. My attempt...

...being depicted prominently on their architectural slides. Even after PeopleSoft's integration manager met with **Microsoft** specifically about BizTalk, Redmond provided neither a white paper nor a set of PowerPoint slides...

...with using XML for business-to-business communication.

With the launch of [www.BizTalk.org](http://www.BizTalk.org), **Microsoft** has gone public with some of its business-to-business concepts. The official word on...

...and electronic commerce. One of its key goals is to have participating companies use consistent **XML schema**. BizTalk will also provide a clearinghouse, via its Web site, for public and private **XML schemas**. Public **schemas** will be available to anyone visiting the site, while private **schemas** can be made available to specific trading partners. The site will also provide an automated **validation** process to ensure your **schema** is BizTalk compatible. A steering committee made up of the major ERP vendors, e-commerce...

...BizTalk schemas, the schemas can be easily queried and mapped into

another vendor's format. **Microsoft** believes individual industries will eventually consolidate their schemas, but the success of BizTalk is not...

...standard XML uses a DTD to describe the valid tags and structure of a document. **Microsoft**, however, has ignored DTDs in favor of XML-Data, a specification currently under review by...

...a natural step toward unifying under XML for all data interchange on the Web.

While **Microsoft** will undoubtedly provide its own suite of tools to leverage BizTalk schemas, the current proposal seems refreshingly free of Windows platform entanglements. **Microsoft** specifically grants permission for anyone to leverage any technology in the BizTalk 0.8 specification perpetually, without license. It seems **Microsoft** feels driving the specification will give them a comfortable advantage in developing BizTalk solutions.

If...

COMPANY NAMES: **Microsoft** Corp.

TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

11/5,K/16 (Item 12 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06504670 Supplier Number: 55221595 (USE FORMAT 7 FOR FULLTEXT)

**Working to Bring Effective E-Commerce Standards into the Energy Industry  
With BizTalk.** (using **Microsoft** 's BizTalk Framework electronic commerce  
software)

The Oil and Gas Journal, v97, n27, p27

July 5, 1999

ISSN: 0030-1388

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 548

PUBLISHER NAME: PennWell Publishing Co.

EVENT NAMES: \*360 (Services information); 330 (Product information)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*4811520 (Online Services)

INDUSTRY NAMES: BUSN (Any type of business); OIL (Petroleum, Energy  
Resources and Mining)

NAICS CODES: 514191 (On-Line Information Services)

TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

**Working to Bring Effective E-Commerce Standards into the Energy Industry  
With BizTalk.** (using **Microsoft** 's BizTalk Framework electronic commerce  
software)

... be summed up in one word: BizTalk.

The BizTalk Framework builds upon industry standards like **XML** and **XML - Schema**. Its objectives are to enable higher levels of semantically **validatable** information exchange, design reuse of information models and process models, and provide interoperability between **XML**-based solutions.

The BizTalk Framework will be first seen as a set of modeling, design  
...

...application-to-application or business-to-business information  
interchange protocol specification.

A set of Tools **Microsoft** is developing is targeted at enabling distributed collaborative development of information models and interchange agreements between applications and/or trading partners. Finally, the Biz Talk Server **Microsoft** is developing is targeted at enabling middleware and transport-neutral, secure, scalable information interchange between...

TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

11/5,K/17 (Item 13 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)



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06477634 Supplier Number: 55111409 (USE FORMAT 7 FOR FULLTEXT)

**Extensibility Announces First Commercial Product for BizTalk Framework  
Schema Validation; Extensibility to Provide Enhanced Schema Facilities  
for the BizTalk Framework.**

Business Wire, p0003

July 9, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 631

PUBLISHER NAME: Business Wire

COMPANY NAMES: **Microsoft** Corp.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

SPECIAL FEATURES: LOB; COMPANY

... encourage the consistent development of XML schemas," said James Utzschneider, director of business frameworks for **Microsoft** .

"Extensibility's XML Authority will facilitate this goal by providing migration tools that customers can...

...officer, "existing schema formats such as DTDs, can easily be ported to the BizTalk Framework."

**XML** Authority 1.1 is the first commercial product to provide **schema validation** for the BizTalk framework. "This will enable users to get started now in developing BizTalk Framework compatible applications," Conrad added. "Developers who want to publish for **schemas** in the BizTalk.Org **schema** repository will be assured that their **schemas** meet the BizTalk Framework specification."

Extensibility is working with **Microsoft** on advanced facilities for the publishing and access of valid BizTalk Framework schemas on the...

...efforts will ensure full implementation support with future products compatible with the BizTalk Framework from **Microsoft** and Extensibility.

"Our joint efforts will quickly enable the potential of XML and schemas for...

...use trial version may also be downloaded from the Extensibility site.

About BizTalk

Introduced by **Microsoft** (NASDAQ:MSFT) in March, the BizTalk Framework makes it easy for businesses to exchange information...

...an XML schema and a set of XML tags used in messages sent between applications.

**Microsoft** , other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

...and is a member of the W3C Schema Working Group and OASIS.

Note to Editors: **Microsoft** and BizTalk are trademarks of **Microsoft** Inc. Extensibility and XML Authority are trademarks of Extensibility Inc.

All others are properties of...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/18 (Item 14 from file: 16)

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06444651 Supplier Number: 55018320 (USE FORMAT 7 FOR FULLTEXT)

**W3C Issues Associating Style Sheets with XML as a Recommendation; Allows  
XML to Leverage Display Power, Flexibility of CSS.**

Business Wire, p1491

June 29, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 522

PUBLISHER NAME: Business Wire

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

... of the W3C's XML and CSS recommendations," explained James Clark, editor of the specification.

**Microsoft**, Netscape, Opera Software, and SoftQuad have products that support the new recommendation. Other vendors have...

...to develop technologies that will allow developers to place the style sheet link outside the **XML** document itself in ways that are extensible, self-documenting, and that can be **validated**. "We can now concentrate on developing a more sophisticated mechanism that takes advantage of ongoing W3C work in metadata, **schemas**, and linking," Clark added.

About the World Wide Web Consortium (W3C)

The W3C was created...

11/5,K/19 (Item 15 from file: 16)

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06359843 Supplier Number: 54700973 (USE FORMAT 7 FOR FULLTEXT)

**Microsoft and Commerce One to Collaborate on Key XML Technologies To Accelerate Business-to-Business Electronic Commerce.**

PR Newswire, p6232

May 24, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1174

PUBLISHER NAME: PR Newswire Association, Inc.

COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software); 7372640 (Electronic Commerce Software)

INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

SPECIAL FEATURES: LOB; COMPANY

**Microsoft and Commerce One to Collaborate on Key XML Technologies To Accelerate Business-to-Business Electronic...**

... Increase Interoperability Between Businesses

DALLAS, May 24 /PRNewswire/ -- Building on a two-year strategic alliance, **Microsoft** Corp. and Commerce One(R) Inc., a leading provider of electronic commerce solutions, today announced...

...by enabling greater interoperability between trading partners. As part of today's news, delivered at **Microsoft** 's Tech\*Ed 99 conference, the Common Business Library (CBL), a public collection of XML...

...the Commerce Chain Solution by Commerce One will support the BizTalk Framework. As a result, **Microsoft** 's and Commerce One's customers and trading partners will be able to easily exchange...

...marketplace portal, including Commerce One MarketSite.net in North America.

"We believe this collaboration with **Microsoft** will greatly expand participation in MarketSite.net and other MarketSite trading communities around the world...

...our long-standing strategic relationship with Commerce One," said Paul Maritz, group vice president of **Microsoft** 's Developer Group. "Leveraging

Commerce One's XML expertise and its Common Business Library will...  
...to create and translate their business documents."

To accelerate the process of developing BizTalk Framework **schemas**, Commerce One MarketSite and CBL will support **XML** -Data Reduced (XDR), the current syntax used for the BizTalk Framework, in addition to **Schema** for Object Oriented **XML** (SOX). XDR and SOX are **XML** -based **schema** languages that have been submitted to the World Wide Web Consortium (W3C) and will support the W3C **schema** specification when it becomes widely available. Both languages provide the rich software data representations needed to classify, search, **validate**, map and dynamically interpret e-commerce business documents. E-commerce applications that support XDR and SOX will be able to use BizTalk Framework **schemas** to develop trading relationships with any organization that supports **schema** from the BizTalk.Org repository.

"We strongly believe that a common business language is critical...

...an XML schema and a set of XML tags used in messages sent between applications. **Microsoft**, other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

...information about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about **Microsoft**'s BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

About CommerceOne

Commerce One is a leading provider of electronic commerce solutions ...or via the Internet at <http://www.commerceone.com/> or <http://www.marketsite.net/>.

About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq: MSFT) is the worldwide leader in software for personal computers. The company offers a...

...enjoyable for people to take advantage of the full power of personal computing every day.

**Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Commerce One, Commerce Chain, BuySite, BuySite...  
COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.

11/5,K/20 (Item 16 from file: 16)  
DIALOG(R) File 16:Gale Group PROMT(R)  
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06307282 Supplier Number: 54521313 (USE FORMAT 7 FOR FULLTEXT)  
**XML: A Language For Embedded Internet.**  
CHILD, JEFF  
Electronic Design, v47, n9, p20(1)  
May 3, 1999  
ISSN: 0013-4872  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 645  
PUBLISHER NAME: Penton Publishing, Inc.  
COMPANY NAMES: **Microsoft** Corp.  
EVENT NAMES: \*336 (Product introduction)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372680 (Internet Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); ELEC (Electronics)  
NAICS CODES: 51121 (Software Publishers)  
SPECIAL FEATURES: COMPANY

... you, the first exposure you had to XML was in March of this year, when **Microsoft** released Internet Explorer 5.0, the company's first XML-compatible browser. And, odds are...

...it into other applications.

Each data field is defined by a string of numbers that **XML** -enabled applications understand to equal a document type, a particular field, or some form of data that can be used by the receiving application. Through this markup **schema**, an **XML** -enabled application receiving an **XML** transmission can **parse** the data received and retag or reorder it for presentation in the format expected by...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/21 (Item 17 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06235790 Supplier Number: 54285219 (USE FORMAT 7 FOR FULLTEXT)  
**NCompass Resolution: Content Management and Workflow for Mid-range Sites. (Software Review) (Evaluation)**

McKenzie, Matthew

The Seybold Report on Internet Publishing, v3, n7, pNA(1)  
March, 1999

ISSN: 1090-4808

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Newsletter; Trade

Word Count: 3522

PUBLISHER NAME: Seybold Publications, Inc.

COMPANY NAMES: \*NCompass Labs Inc.

EVENT NAMES: \*350 (Product standards, safety, & recalls)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372682 (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation); PUBL (Publishing)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: NCompass Labs Resolution 2.0 (Web authoring software)

SPECIAL FEATURES: COMPANY

... around a three-tier architecture that consists of a desktop client, a server (which uses **Microsoft** 's Internet Information Server for HTTP services) and a **Microsoft** SQL Server 6.5 relational database. In addition, beginning with Version 2, Resolution offers a...

...any Web authoring tool or HTML editor, including visual tools such as Macromedia Dreamweaver and **Microsoft** FrontPage, to create and edit templates. It can do this because all of the special...

...The placeholders, which appear as empty images within a visual Web authoring tool, are actually **Microsoft** Design Time Controls--small ActiveX applications that the designer can configure to control when and...these tools for each placeholder.)

\* They can import formatted content, including text and tables, from **Microsoft** Word or Excel. (Resolution converts this formatted content to HTML using a set of **Microsoft** ActiveX controls; at this time, NCompass does not convert any other document formats.)

\* They can...

...published pages on a Web site. (The term doesn't have anything to do with **Microsoft** 's "Active Desktop" channels or with any other push technology.) An author can post the...go without much additional fuss.

Pros and cons Seeing big-name players like Lotus and **Microsoft** zeroing in on the intranet market, NCompass is steering now toward external site development, with...

...a company can deploy Resolution across multiple departments within an organization.

Architecture. Resolution is a **Microsoft** -centric system, relying heavily on ActiveX and COM and providing native support for only one

database ( **Microsoft** SQL Server 6.5), one Web server ( **Microsoft** IIS), one browser for preview (Internet Explorer) and one method of generating dynamic pages (ASP). Clearly, this will appeal to all- **Microsoft** shops and create some difficulty for those who choose a more open architecture. The one...

...whistles or that see content management as but one complex module interacting with many others.

**XML** support. In its literature, NCompass talks the **XML** talk, but, at this point at least, Resolution fails to walk the **XML** walk. The server has no **XML** smarts; its use of an attribute tag in an HTML element has nothing to do with well- formed or valid **XML** ; it merely serves as the handle by which the server pulls resources from the database. In contrast with DynaBase, for example, Resolution's server does not **parse XML** to recognize user-defined tags in context; it does not **validate XML** ; and it does not use DTDs to create a **schema** . In the future, though, NCompass does hope to add **XML** parsing and **validation** to its server. That step would enable it to interact with **XML** -authoring tools and with other **XML** -aware servers, such as content-syndication servers following the ICE protocol.

In conjunction with its...

...authoring tool that supports drag-and-drop.

Application server: Windows NT Server application interacting with **Microsoft** Internet Information Server 3 or 4 for HTTP services. Requires Pentium 200 with 128 MB of RAM; 500 MB of free disk space.

Database: **Microsoft** SQL Server 6.5; ODBC 3.0 or later. Oracle 8I under development.

Pricing Base...

11/5,K/22 (Item 18 from file: 16)  
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06085918 Supplier Number: 53606641 (USE FORMAT 7 FOR FULLTEXT)  
**XML Pro 1.2: XML Pro: Coding the Future. (from Vervet Logic) (Software Review) (Evaluation)**

Freund, Jim

Computer Shopper, v19, n2, p429(1)

Feb, 1999

ISSN: 0886-0556

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Magazine/Journal; General Trade

Word Count: 987

PUBLISHER NAME: Ziff-Davis Publishing Company

COMPANY NAMES: \*Vervet Logic

EVENT NAMES: \*350 (Product standards, safety, & recalls)

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372682 (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)

NAICS CODES: 51121 (Software Publishers)

TRADE NAMES: XML Pro 1.2 (Web authoring software)

SPECIAL FEATURES: COMPANY

... to-date on the latest Web trends, you know that the powers that be, namely **Microsoft** Corp., Netscape Communications Corp., and the World Wide Web Consortium (W3C), have determined that Extensible...

...online developers, but the current iteration is clearly not intended for that audience.

That said, **XML** Pro will benefit its experienced-developer audience by providing **validation** of the syntax and by laying out the code in a properly nested manner. It...

...create DTDs, which are themselves a changing standard, and it may well

be expanded with " **schemas** ." However, it will ensure that any DTDs you import or build are valid themselves. **XML** files with errors can still be opened by the program, which will then generate an...

...and nature of the error. Troublesome DTDs, on the other hand, cannot be opened, but **XML** Pro will specify where the problem exists.

**XML** Pro also allows you to work with...

11/5,K/23 (Item 19 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05920543 Supplier Number: 53153995 (USE FORMAT 7 FOR FULLTEXT)  
Microsoft **in on XML Support**.  
dot.COM, v5, n7, pNA  
Oct 1, 1998  
ISSN: 1077-3452  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 423  
PUBLISHER NAME: Business Communications Company, Inc.  
COMPANY NAMES: **Microsoft** Corp.  
EVENT NAMES: \*330 (Product information)  
GEOGRAPHIC NAMES: \*1USA (United States)  
PRODUCT NAMES: \*7372504 (Graphical User Interface Software)  
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)  
NAICS CODES: 51121 (Software Publishers)  
TICKER SYMBOLS: MSFT  
SPECIAL FEATURES: COMPANY

(USE FORMAT 7 FOR FULLTEXT)  
Microsoft **in on XML Support**.  
TEXT:  
**Microsoft** (One **Microsoft** WY., Bldg. 8, N. Office 2211, Redmond, WA 98052; Tel: 425/882-8080, Fax: 425/936-7329; Website: [www.microsoft.com](http://www.microsoft.com)) is actively involved in defining the emerging XML standard and will continue to implement...

...World Wide Web technologies, including XML. A cofounder of the W3C's XML Working Group, **Microsoft** enjoys broad support for its efforts from many participants in the open W3C process.

**Microsoft** will support the following key features in the next update to the Windows operating system and its Internet Explorer browsing software:

- \* Direct viewing of **XML** . The **Microsoft XML** implementation lets users view **XML** using XSL or Cascading Style Sheets with their Web browser, just as they view HTML documents. \* High performance, **validating XML** engine. The **XML** engine familiar to Internet Explorer 4.0 developers has been substantially enhanced and fully supports W3C **XML** 1.0 and **XML** Namespaces, which lets developers qualify element names uniquely on the Web and thus avoid conflicts between elements with the same name. Native **XML** support in Windows means that developers can count on the full **XML** processing capabilities being present to read and manipulate the data as they move between their applications and components. \* Extensible Style Language (XSL) support. With the **Microsoft** XSL processor, based on the latest W3C Working Draft, developers can apply style sheets to **XML** data and display the data in a dynamic and flexible way that can be easily customized. The querying capabilities of the **Microsoft** XSL processor also allows developers to find and extract information within an **XML** data set on the client or the server. \* **XML Schemas** . **Schemas** define the rules of an **XML** document, including element names and rich data types, which elements can appear in combination, and which attributes are available for each element. In order to enable multitier applications, **Microsoft** will be releasing a technology preview for **XML** schema based on the schema submissions to the W3C **XML** working group. \* Server-side **XML** .

Server-side **XML** processing allows **XML** to be used as a standard means of passing data between multiple distributed application servers-even across operating system boundaries. \* **XML** document object model (DOM). The DOM is a standard object application programming interface that gives developers programmatic control of **XML** document content, structure, formats, and more. The **Microsoft XML** implementation includes full support for the W3C **XML** DOM Recommendation and is accessible from script, the Visual Basic(R) development system, C++, and...  
COMPANY NAMES: **Microsoft** Corp.

11/5,K/24 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02192901 SUPPLIER NUMBER: 20229291 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SGML gets a new lease on life at DC conference. (GCA's SGML/XML '97 conference) (includes related article on XML-data) (Industry Trend or Event)**  
Alexander, George  
Seybold Report on Publishing Systems, v27, n9, p25(6)  
Jan 19, 1998  
ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 6036 LINE COUNT: 00473

SPECIAL FEATURES: photograph; illustration  
DESCRIPTORS: Trade Show Report; Publishing Industry Software; XML  
PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software)  
SIC CODES: 7372 Prepackaged software  
FILE SEGMENT: CD File 275

... Washington early in December was a celebration of the triumph of XML. Powerful forces, including **Microsoft** and Netscape, have aligned themselves behind XML, positioning it to play a much larger part...the IM. The latest of these is Web support, demonstrated at the Washington show using **Microsoft** 's Internet Explorer. Support for dealing with XML documents across the Web is one of...

...the validation process.

Two papers delivered back to back to an overflow crowd at SGML/ **XML** '97 laid down the rationale for a new initiative to strengthen the **schemata** against which **XML** documents will be **validated** . The new initiative is known by the name of **XML -Data** following the proposal "Specifications for **XML -Data**," written by Andrew Layman ( **Microsoft** ), Jean Paoli ( **Microsoft** ), Steve DeRose (Inso) and Henry S. Thompson (University of Edinburgh). See:

<http://www.microsoft.com/standards/xml/xmldata-f.htm>.

In line with the move to a stronger and more generic form of **validation** , the term " **schema** " is often substituted for DTD, and, yes, the literacy and grace of the authors of the **XML -Data** proposal dictate use of the Latin plural **schemata** for DTDs.

Francois Chahuneau, president of AIS Software, explained the two-fold purpose of the...

...data schemata, is compelling.

Thompson and others stressed that any change in the method of **validation** must be approached with caution and that the first step should be creation of a DTD for **schemata** so that new-style **schemata** can be meta- **validated** against a DTD. In a related development, Eliot Kimber of Isogen and coeditor of ISO...

...instructions to declare data attributes, making it possible to do HyTime-style architectural forms in **XML** .

Regardless of the exact form taken-whether as **XML -Data**, HyTime or some yet-to-be-named mechanism-the extension of document **schemata** to include stronger, new types of definition and **validation** in easily understood syntax will stimulate experimentation and growth in the

application of structured markup...

11/5,K/25 (Item 1 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
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04503761 Supplier Number: 58087796 (THIS IS THE FULLTEXT)  
**DATACHANNEL: DataChannel and Extensibility partner to advance XML leadership.**

M2 Presswire, pNA

Dec 8, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 787

TEXT:

M2 PRESSWIRE-8 December 1999-DATACHANNEL: DataChannel and Extensibility partner to advance XML leadership (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:071299

\* Extensibility to support PML 1.0

\* DataChannel Extends Training

Philadelphia, PA -- XML '99 -- In a joint announcement from XML '99, DataChannel and Extensibility have partnered to deliver advanced XML industry solutions. The collaborative efforts from this alliance will help businesses leverage existing information systems by synchronizing data exchange from disparate systems, differing schemas, and e-business applications.

Extensibility, the foremost authority on **XML Schema** management, will create a **validated schema** for DataChannel's Portal Markup Language 1.0. (PML 1.0). PML 1.0 has been submitted and accepted by the OASIS group as the first industry standard markup language for content display and management by an Enterprise Information Portal. **XML Authority**, Extensibility's unparalleled **schema** processing and **validation** server will contain PML 1.0 support in its next release. DataChannel will accelerate its lead in providing **XML** training and solutions by becoming the lead training partner for Extensibility, creating new curriculum and certification for **XML Authority** as well as other company offerings. These courses, along with other advanced tutorials from DataChannel will be will be offered in both open-enrollment and customized training sessions, available the first half of next year.

Additionally, DataChannel will include an evaluation copy of XML Authority in the SDK of its XML-based Enterprise Information Portal, DataChannel Server 4.0 scheduled for first quarter of 2000. Coupling of the two products will deliver the industry's most advanced XML tools, training, support, and sample development allowing customers and partners to build extensible, scalable, XML-based corporate portals. DataChannel will also include XML Authority in its repertoire of offerings for schema design services and portal implementation engagements.

"We continue our commitment to providing our customers and partners with the most advanced **XML** -based solutions in the industry. In the realm of **XML schema** management, Extensibility stands alone. We are extremely fortunate that we are able to partner with them to extend our own functionality as well as provide these services for our respective customers", said Lucie Fjeldstad, CEO, DataChannel, Inc. "Extensibility excels at **schema** processing and we give customers a way to manage those **validated XML** documents with our portal."

"Our customers are developing some amazing applications with our products. This agreement will provide them with additional training support and extend our value with DataChannel's training and services capabilities. They will enjoy advanced XML curriculum from one of the premier solutions companies in the industry. We also will enable advance content management capabilities by supporting DataChannel's portal markup language" commented Reid Conrad, CEO Extensibility.

As part of the agreement, Extensibility joins DataChannel's XpertPartner Program. Other aspects of the agreement include joint development efforts on future offerings that were not disclosed by the companies.



#### About Extensibility, Inc.

Extensibility, Inc., (<http://www.extensibility.com/>) is the leading provider of enabling technologies for XML schemas. Thousands of organizations, including industry initiatives such as BizTalk (<http://www.biztalk.com/>), FpML (<http://www.fpml.com/>) and Acord (<http://www.acord.com/>) use XML Authority to build Internet-ready business and industry vocabularies for next generation e-business applications. Extensibility is a strategic partner with leading companies such as Microsoft (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>) and Quark ([www.quark.com](http://www.quark.com/)). Based in Chapel Hill, N.C., the company was founded in 1998 and is a member of the W3C Schema Working Group and OASIS.

#### About DataChannel

DataChannel advances the way the world does business by providing open-standards-based Internet solutions through its products, services and partners; ensuring that customers maximize the value of their information.

Privately held and founded in 1996, DataChannel, Inc. is an XML-based Enterprise Information Portal (EIP) Solutions company that unleashes enterprise information over the Internet, making it easier for employees, customers and partners to participate in your business. DataChannel's EIP Solutions Framework provides the building blocks for a solid e-business strategy. DataChannel Server 4.0, an XML-based portal server, provides a personalized and secure e-business interface, a core component of the Framework. The foundation of the Framework is the XML backbone, which extends your existing infrastructure by using XML to expose all enterprise information so that it can be accessed in a uniform manner to build dynamic Web-based applications. To learn more about DataChannel, visit the company's Website at <http://www.datachannel.com>.

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e-mail: [doboyski@brodeur.com](mailto:doboyski@brodeur.com) Carl Andrews, DataChannel Tel: +1 425 974 4177  
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PUBLISHER NAME: M2 Communications Ltd.

COMPANY NAMES: \*DataChannel Inc.; Extensibility Inc.

PRODUCT NAMES: \*7372680 (Internet Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

... exchange from disparate systems, differing schemas, and e-business applications.

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"Our customers are developing some amazing applications with our

products. This...next generation e-business applications. Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>) and Quark ([www.quark.com](http://www.quark.com/)).

11/5,K/26 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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04503616 Supplier Number: 58087646 (THIS IS THE FULLTEXT)

MICROSOFT : Microsoft announces finalized BizTalk framework.

M2 Presswire, pNA

Dec 8, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1393

TEXT:

M2 PRESSWIRE-8 December 1999- **MICROSOFT : Microsoft** announces finalized BizTalk framework (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:061299

\* **Microsoft** Teams With Customers, Partners and Industry Standards Bodies To Define BizTalk Framework and Accelerate Adoption of XML-Enabled E-Commerce

REDMOND, Wash. -- **Microsoft** Corp. today announced availability of the BizTalk Framework Document Specification 1.0, an updated component of the framework based on Extensible Markup Language (XML) schemas and industry standards for sharing information. The **Microsoft** BizTalk Framework provides specifications for the design and development of XML-based solutions for communication between applications and organizations by leveraging standard Internet technologies such as XML, XML schema and MIME. This data-focused approach allows businesses to easily exchange XML documents with online trading partners and internal systems regardless of the platform, operating system or the underlying technology of their existing systems.

**Microsoft** submitted the BizTalk Framework Document Specification 1.0 to the BizTalk Steering Committee -- composed of industry-leading vendors, standards bodies and corporate customers -- for review in September. The committee finalized and published the document specifications on the BizTalk.Org Web site (<http://www.biztalk.org/>), a public online library of shared XML information, resources and business document schema. Any individual or organization can access the specifications and use them to implement e-commerce and application integration solutions using the BizTalk Framework. With the final version of the specification now available, corporate developers and independent software developers can immediately embark on the development of BizTalk-compatible applications.

"Today's IT professional is faced with the double challenge of not only integrating diverse applications, but doing so in a time frame relevant to the pace of business today," said Charles Fitzgerald, director of business development for the Developer Division at **Microsoft**. "Getting different applications to 'talk' to each other is a major technical hurdle, which has grown more visible as companies try to integrate e-commerce applications with back-end systems and partners. The BizTalk Framework helps speed the integration of applications within a single organization or between trading partners over the Internet."

About the BizTalk Framework

First introduced in March 1999, the BizTalk Framework makes it easier for businesses to exchange information between applications and conduct business over the Internet with trading partners and customers. This has been difficult in the past because of the lack of a single technical vocabulary for describing business data and processes. The challenge exists both across and within industries because no two businesses use data in exactly the same way. The BizTalk Framework includes design specifications for implementing business documents using XML schemas and a set of XML tags that provide BizTalk-enabled applications with document handling and routing information. They act as an "envelope" for the business information

to be transmitted. **Microsoft**, other software companies and industry-standard bodies will use the BizTalk Framework to produce XML schemas in a consistent manner to enable integration across industries and between business systems regardless of platform, operating system or underlying technology.

"The biggest hurdle in business-to-business electronic commerce is the ability to trade with companies that have disparate systems and infrastructures," said Andy Berti, chief technology officer at Intelisys Electronic Commerce Inc. "The BizTalk Framework is a remarkable step toward developing a more efficient information exchange platform that will facilitate the translation of information between extended purchasing communities. BizTalk truly capitalizes on the potential of Internet technologies by interpreting a broad spectrum of protocols."

The BizTalk Steering Committee provides guidance on the future direction of the BizTalk Framework and includes American Petroleum Institute, Ariba Inc., The Baan Co., The Boeing Co., Clarus Corp., CommerceOne Inc., Concur Technologies Inc., Data Interchange Standards Association (DISA), J.D. Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft**, New Era of Networks (NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp., RosettaNet and SAP AG. More information about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about the **Microsoft** BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

#### About the BizTalk.Org Web Site

The BizTalk.Org Web site serves as the online reference for the BizTalk Framework specifications, **schemas**, reference materials, tools, sample applications and a community newsgroup. The Web site is an open repository for the submission and publication of **XML schemas**, business documents and messages expressed in **XML**. The **schemas** allow organizations to exchange documents in generally understood business terminology and integrate the data from those documents with their existing applications. In addition, the Web site provides an updated submission and **schema validation** process. Users can freely use **XML schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema**. Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

#### About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader in software for personal and business computing. The company offers a wide range of products and services designed to empower people through great software -- any time, any place and on any device. **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein may be trademarks of their respective owners.

#### Support for BizTalk Framework From the Steering Committee Members

"The BizTalk Framework helps enable e-business and business-to-business integration in a heterogeneous environment. It enables the creation of partner and supply chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework." -- Peter Hoversten Senior Vice President for Product Strategy New Era of Networks Inc. (NEON)

"BizTalk is an important business-to-business e-commerce accelerator. The inclusion of cXML in BizTalk Framework 1.0 now provides business suppliers of all sizes with a friction-free link to some of the world's largest business buyers through the Ariba network." -- Dave Rome Vice President of Marketing Ariba

"Compaq's BusinessBus is enterprise application integration software for integrating applications and business processes. It offers an XML-compliant API that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications on heterogeneous platforms, giving customers a superior approach to business-to-business integration. XML documents from suppliers and external agents can be immediately integrated with the BusinessBus XML backbone without translation." -- Rob Starkey Director of Enterprise Application Integration Compaq Professional Services

"Concur is pleased to support the release of the BizTalk Framework

1.0 specification. Enabling businesses to securely send business documents and information from our workplace e-commerce solutions to partners via BizTalk accommodates those who wish to communicate and conduct business over the Internet. This is an important initiative in the growth and continued success of today's electronic commerce marketplace." -- Michael Hilton Chief Technology Officer Concur Technologies

"The biggest hurdle in business-to-business electronic commerce is the ability to trade with companies that have disparate systems and infrastructures. The BizTalk Framework 1.0 is a remarkable step toward developing a more efficient information exchange platform that will facilitate the translation of information between extended purchasing communities. BizTalk truly capitalizes on the potential of Internet technologies by interpreting a broad spectrum of protocols." -- Andy Berti Chief Technology Officer Intelisys Electronic Commerce

"We think the BizTalk Framework 1.0 advances the state of XML for customer's e-business and application integration challenges. Our customers want a single envelope for sending and managing XML-based messages and the BizTalk Framework is instrumental in making this happen." -- David Connelly President Open Applications Group

"As a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet Relationship Hubs, where corporate employees, business partners and customers converge to conduct commerce and manage relationships, will be greatly enhanced and facilitated as a result of this important initiative." -- Keith Wales CTO and Co-Founder Pivotal

"The BizTalk Framework 1.0 solves the issue of interface description in e-commerce. SAP AG has seen this vision come true, and we expect tremendous progress moving forward as part of this initiative. SAP is excited to support the BizTalk Framework 1.0 release, which will enable businesses to easily exchange information over the Internet in a standard way." -- Thomas Becker Development Manager of Business Process Technology SAP AG

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PUBLISHER NAME: M2 Communications Ltd.

COMPANY NAMES: **Microsoft** Corp.

GEOGRAPHIC NAMES: \*1USA (United States)

PRODUCT NAMES: \*7372000 (Computer Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

(USE FORMAT 7 FOR FULLTEXT)

MICROSOFT : Microsoft announces finalized BizTalk framework.

TEXT:

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RDATE:061299

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...framework based on Extensible Markup Language (XML) schemas and industry standards for sharing information. The **Microsoft** BizTalk Framework provides specifications for the design and development of XML-based solutions for communication...systems regardless of the platform, operating system or the underlying technology of their existing systems.

**Microsoft** submitted the BizTalk Framework Document Specification 1.0 to the BizTalk Steering Committee -- composed of...of business today," said Charles Fitzgerald, director of business development for the Developer

Division at **Microsoft** . "Getting different applications to 'talk' to each other is a major technical hurdle, which has...and routing information. They act as an "envelope" for the business information to be transmitted. **Microsoft** , other software companies and industry-standard bodies will use the BizTalk Framework to produce XML...Technologies Inc., Data Interchange Standards Association (DISA), J.D. Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft** , New Era of Networks (NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp., RosettaNet...

...about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about the **Microsoft** BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

#### About the BizTalk.Org Web Site

The BizTalk.Org Web site serves as the online reference for the BizTalk Framework specifications, **schemas** , reference materials, tools, sample applications and a community newsgroup. The Web site is an open repository for the submission and publication of **XML schemas** , business documents and messages expressed in **XML** . The **schemas** allow organizations to exchange documents in generally understood business terminology and integrate the data from...

...documents with their existing applications. In addition, the Web site provides an updated submission and **schema validation** process. Users can freely use **XML schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema** . Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

#### About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "...designed to empower people through great software -- any time, any place and on any device. **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein...chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework." -- Peter Hoversten Senior Vice President for Product Strategy New Era of Networks IncIt offers an XML-compliant API that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications...a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet...  
COMPANY NAMES: **Microsoft** Corp.

11/5,K/27 (Item 3 from file: 636)  
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04181953 Supplier Number: 54721501 (THIS IS THE FULLTEXT)  
MICROSOFT : **Microsoft and Commerce One collaborate on XML to accelerate business-to-business e-commerce.**

M2 Presswire, pNA

May 25, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1205

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M2 PRESSWIRE-25 May 1999- **MICROSOFT** : **Microsoft** and Commerce One to collaborate on key XML technologies to accelerate business-to-business electronic commerce (C)1994-99 M2 COMMUNICATIONS LTD

RDATE:240599

\* Commerce One Common Business Library and MarketSite XML Documents  
To Enhance BizTalk Framework to Increase Interoperability Between  
Businesses

DALLAS -- Building on a two-year strategic alliance, **Microsoft** Corp. and Commerce One Inc., a leading provider of electronic commerce

solutions, today announced a broad collaboration around the BizTalk Framework and XML technologies to accelerate business-to-business electronic commerce by enabling greater interoperability between trading partners. As part of today's news, delivered at **Microsoft** 's Tech Ed 99 conference, the Common Business Library (CBL), a public collection of XML document building blocks developed by Commerce One, and the Commerce One MarketSite-based business documents will be submitted into the BizTalk.Org schema repository. During today's executive keynote at Tech Ed 99, the Commerce Chain Solution by Commerce One, a leading electronic procurement solution, was demonstrated using CBL and BizTalk Framework schemas.

In addition, the Commerce Chain Solution by Commerce One will support the BizTalk Framework. As a result, **Microsoft** 's and Commerce One's customers and trading partners will be able to easily exchange business documents and integrate diverse e-commerce applications, making it easier for greater numbers of buying and selling organizations to participate in the Commerce One MarketSite. This interoperability between Commerce One and the BizTalk Framework will help customers avoid the high costs of custom integration and support for multiple document standards when establishing e-commerce relationships with trading partners.

The Commerce One MarketSite open marketplace platform will support any business document included in the BizTalk.Org repository, in addition to CBL-based documents. As a result, all BizTalk-enabled applications can interoperate with any MarketSite business-to-business marketplace portal, including Commerce One MarketSite.net in North America.

"We believe this collaboration with **Microsoft** will greatly expand participation in MarketSite.net and other MarketSite trading communities around the world, creating economies of scale for Commerce One customers and their trading partners," said Chuck Donchess, vice president of Marketing and Business Development for Commerce One. "Web-based marketplaces and trading communities based on nonproprietary XML environments, such as CBL, are critical to reducing the barriers to entry for all trading partners and driving maximum value to members of the marketplace." Commerce One is also a charter member of the BizTalk steering committee, a group of organizations that guides the development and direction of the BizTalk Framework and manages BizTalk.Org. (More information about the BizTalk steering committee can be found at [http://www.biztalk.org/.](http://www.biztalk.org/))

"This collaboration expands our long-standing strategic relationship with Commerce One," said Paul Maritz, group vice president of **Microsoft** 's Developer Group. "Leveraging Commerce One's XML expertise and its Common Business Library will greatly accelerate adoption of electronic commerce by providing essential XML building blocks that can be used by all BizTalk supporters to create and translate their business documents."

To accelerate the process of developing BizTalk Framework **schemas**, Commerce One MarketSite and CBL will support **XML** -Data Reduced (XDR), the current syntax used for the BizTalk Framework, in addition to **Schema** for Object Oriented **XML** (SOX). XDR and SOX are **XML** -based **schema** languages that have been submitted to the World Wide Web Consortium (W3C) and will support the W3C **schema** specification when it becomes widely available. Both languages provide the rich software data representations needed to classify, search, **validate**, map and dynamically interpret e-commerce business documents. E-commerce applications that support XDR and SOX will be able to use BizTalk Framework **schemas** to develop trading relationships with any organization that supports **schema** from the BizTalk.Org repository. "We strongly believe that a common business language is critical to e-commerce interoperability," said Randy Whiting, president and CEO of CommerceNet, an industry consortium for companies using, promoting and building electronic commerce solutions on the Internet. "CommerceNet selected Commerce One CBL as the foundation for our **XML** interoperability framework, based on CBL's broad horizontal scope and careful analysis of numerous existing commerce standards. CBL has been deployed in several pilots including a major catalog interoperability pilot sponsored by the U.S. government's General Services Administration (GSA), one of the largest purchasing organizations in the world. We are very excited that CBL will be part of the BizTalk repository and hope this will move the industry closer to a common operating environment for e-commerce."

About Common Business Library

CBL was created two years ago by Commerce One with the realization that there will not be one standard for electronic commerce, but rather many standards. CBL alleviates this problem by providing a recommended set of XML building blocks, data elements, attributes and definitions that are common to many business domains, such as address, price, quantity, catalog and purchase order, which are used to create XML-based business documents. Reusing these components speeds the development of e-commerce standards and, more important, facilitates the interoperation of commerce applications. CBL provides a common semantic framework that unifies different industry standards such as Open Buying on the Internet (OBI) and Open Trading Protocol (OTP) for purchasing, enabling companies that subscribe to different protocols to still do business.

#### About the BizTalk Framework

Introduced in March, the BizTalk Framework makes it easy for businesses to exchange information between software applications and conduct business over the Internet with trading partners and customers. The BizTalk Framework includes a design framework for implementing an XML schema and a set of XML tags used in messages sent between applications. **Microsoft**, other software companies and industry standards bodies will use the BizTalk Framework to produce XML schemas in a consistent manner to enable integration across industries and between business systems, regardless of platform, operating system or underlying technology. More information about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about **Microsoft**'s BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

#### About CommerceOne

Commerce One is a leading provider of electronic commerce solutions that dynamically link buying and supplying organizations into real-time trading communities. The Commerce Chain Solution by Commerce One, comprising Commerce One BuySite and Commerce One MarketSite, enables companies to significantly reduce operational costs and increase efficiency by automating the entire indirect goods and services supply chain. As a result, enterprise organizations are able to realize a strategic competitive advantage as well as a rapid return on investment. Commerce One is located in Walnut Creek, Calif., and can be reached by phone at (800) 308-3838 or (925) 941-6000 or via the Internet at <http://www.commerceone.com/> or <http://www.marketsite.net/>.

#### About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader in software for personal computers. The company offers a wide range of products and services for business and personal use, each designed with the mission of making it easier and more enjoyable for people to take advantage of the full power of personal computing every day.

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PUBLISHER NAME: M2 Communications

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PRODUCT NAMES: \*7372000 (Computer Software); 7372640 (Electronic Commerce Software)

INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

SIC CODES: 7372 (Prepackaged software)

NAICS CODES: 51121 (Software Publishers)

TICKER SYMBOLS: MSFT

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MICROSOFT : **Microsoft and Commerce One collaborate on XML to accelerate business-to-business e-commerce.**

TEXT:

M2 PRESSWIRE-25 May 1999- **MICROSOFT** : **Microsoft** and Commerce One to collaborate on key XML technologies to accelerate business-to-business electronic...

... BizTalk Framework to Increase Interoperability Between Businesses  
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COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.

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**WORLD WIDE WEB CONSORTIUM: World Wide Web Consortium releases first drafts of XML Schema specification.**

M2 Presswire, pNA

May 25, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

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M2 PRESSWIRE-25 May 1999-WORLD WIDE WEB CONSORTIUM: World Wide Web Consortium releases first working drafts of XML Schema specification  
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RDATE:240599

\* W3C Members Collaborate to Improve and Standardize Needed  
Technology

Leading the Web to its full potential, the World Wide Web Consortium (W3C) today releases the first public working drafts of the XML Schema specification: XML Schema Part 1: Structures and XML Schema Part 2: Datatypes. By publishing these working drafts at an early stage of the design work, W3C is ensuring that the public can follow the XML Schema design work, and that the final result can be widely accepted and adopted. One part proposes facilities for associating datatypes with XML element types and attributes; this will allow XML software to do a better job of managing dates, numbers, and other special forms of information. The other part of the specification proposes methods for describing the structure and constraining the contents of XML documents. These drafts, which builds on earlier work submitted to W3C by several vendor and user organizations, are the first step in the development of a powerful, vendor-neutral format for defining the rules that govern particular kinds of XML data.

**Industry-Wide Participation**

Current members of the W3C XML Schema Working Group are key industry players in Web publishing, XML processing, and database management system. In alphabetical order, they are: Adobe Systems, Agranat Systems, Arbortext, University of Bristol, Calico Commerce, Commerce One, University of Edinburgh, Extensibility, Graphic Communications Association, Health Level Seven, HP, IBM, University of Illinois at Chicago, Inso, Lawrence Berkeley National Laboratory, Lotus Development, Louisiana State University, Merrill Lynch, **Microsoft**, Microstar, Object Design, Omnimark Technologies, Oracle, SAP, SoftQuad, Software AG, Sybase, Vignette, Wall Data, and Xerox.

Following W3C's practice, the XML Schema Working Group provides a public mailing list for comments on the working drafts, in addition to the feedback channels defined by the W3C Process. The address for comments is given in the drafts themselves.

**The Web needs Richer Data**

Extensible Markup Language (XML) was originally designed for encoding human-readable documents, but quickly attracted attention from groups interested in electronic commerce, interchange of data from relational and object-oriented databases, and other non-document applications. The Resource Description Framework (RDF) was designed to integrate a variety of web-based metadata activities including content ratings, search engine data collection, and digital library collections. Many applications can benefit from the development of schemas:

Databases must, for example, communicate detailed information about the legal values of particular fields in the data being exchanged. Publishing and syndication services must be able to describe the properties of headlines, news stories, thumbnail images, cross-references, etc. For electronic commerce, schemas can be used to define business transactions within markets and between parties, and to provide rules for validating business documents.

When XML is used to exchange technical information in a multi-vendor environment, schemas will allow software to distinguish data governed by industry-standard and vendor-specific schemas, and help applications know when it is safe to ignore information they do not understand, and when they must not do so. This means schemas may help make software more robust and systems more able to change and adapt to evolving situations.

Traditional document processing will also benefit from **XML Schemas**, because **schema**-aware document management systems will be better able to guide authors and editors in the creation and maintenance of documents.

**XML** , in accordance with its origin, provides methods of expressing syntactic **validity** constraints on document content, without attempting any formal specification of the meaning of markup. RDF, starting from the problem of describing Web resources in general, has focused more on the semantics of metadata, and less on the syntax. One of the most important design challenges for the ongoing work on **XML Schemas** and RDF is to ensure that their approaches and data models converge.

What's new?

At present, rules about what kinds of information can appear in an XML document can be expressed only in the form of XML document type definitions (DTDs). DTDs use a special format to define the rules for using XML markup for different kinds of documents, but in practice there are some common rules that cannot be expressed at all in DTD form. XML Schemas are more powerful than DTDs, so they will be able to express some rules that DTDs cannot express. Even more important for many purposes is that XML schemas are themselves XML documents. Using XML as the document format for schemas, instead of using a special-purpose form as DTDs do, will allow users and developers of XML schemas to use standard XML tools, the same ones they use for other structured information, instead of having to shift to specialized tools for work on schemas. It will also remove some of the shroud of mystery that have traditionally made DTD development a black art. Any existing XML processor can read an XML schema; interchange will be easy.

#### Cooperation Promotes Widespread Adoption

The XML Schema Working Group began its work by attempting to clarify the scope of its work. Requirements and suggestions have been gathered and discussed; eventually, these were refined into a short requirements document, which outlines some of the core usage scenarios and assumptions that are governing the design of the XML Schema language.

The XML Schema work builds on existing W3C specifications and experience in XML and database fields. The intense work of preparing these drafts has harnessed the expertise of key players among the W3C Membership in the fields of document management, database management, and electronic commerce. The diversity of representation within the W3C working group helps ensure that XML Schemas will be an open, vendor-neutral format that content creators can easily use and depend upon for information interchange over the Web. The purpose of these publications is to encourage public comments and contributions. Further information on XML Schema work can be found in the XML Activity statement at <http://www.w3.org/XML/Activity>

About the World Wide Web Consortium [W3C]

The W3C was created to lead the Web to its full potential by developing common protocols that promote its evolution and ensure its interoperability. It is an international industry consortium jointly run by the MIT Laboratory for Computer Science (MIT LCS) in the USA, the National Institute for Research in Computer Science and Control (INRIA) in France and Keio University in Japan. Services provided by the Consortium include: a repository of information about the World Wide Web for developers and users, sample code implementations to embody and promote standards, and various prototype and sample applications to demonstrate use of new technology. To date, over 300 organizations are Members of the Consortium.

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... Illinois at Chicago, Inso, Lawrence Berkeley National Laboratory, Lotus Development, Louisiana State University, Merrill Lynch, **Microsoft** , Microstar, Object Design, Omnimark Technologies, Oracle, SAP, SoftQuad, Software AG, Sybase, Vignette, Wall Data, and...

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What's new...

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03838290 Supplier Number: 48339130 (THIS IS THE FULLTEXT)  
**W3C Recommends XML 1.0 Specification To Improve Document Delivery**  
Information & Interactive Services Report, v19, n5, pN/A  
March 6, 1998  
ISSN: 1059-731X  
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Document Type: Newsletter; Trade  
Word Count: 938  
TEXT:

By Jerry Ashworth, Associate Editor

Now that it has widespread industry support, the extensible markup language (XML) should weave its way into Internet commerce, simplifying document delivery to realize the Web's potential.

The World Wide Web Consortium (W3C), a 243-member organization created to develop common protocols and promote the Internet's evolution, Feb. 11 released as a recommendation XML 1.0, a system for defining, validating and sharing document formats on the Web. The recommendation provides that the specification is stable, enhances Internet interoperability and has been reviewed by W3C.

Created by a W3C working group that includes key companies such as Hewlett-Packard Co., **Microsoft** Corp., Netscape Communications Corp. and Sun Microsystems Inc., XML is a subset of the standard generalized markup language (SGML), a 10-year-old international text processing standard. While retaining SGML features such as vendor independence, user extensibility, validation and human readability, XML is easier to understand and can be processed by existing commercial and free tools.

The SGML is difficult to use because it requires computers to process two documents - a real document and a document type definition (DTD), which could be a template for a preferred document structure, Josef Dietl of the W3C's Technologies and Society Domain, told ISR. W3C later recommended hypertext markup language (HTML) 4.0, which allowed firms to present information on the Internet easier, but did little to help electronic commerce customers understand how to use that information, he said.

"Finally, XML unites the best from both branches - interoperability across platforms, extensibility and the capability to be automatically processed," Dietl said, adding that XML does not require a DTD. If "you have an empty document when you start a Web editor, XML provides an empty container for your favorite application [such as graphics, sound or multimedia]. These are examples of the extensibility of XML."

#### XML More Automatable

XML also is more automatable than HTML, Dietl said. Although HTML allows users to display information from a database on the Web, it was difficult to interpret this information automatically. An intelligent agent in XML, however, can scan Web pages not only for random key words, but the context in which they are used. Web content providers can create special tags to support agents.

"If, say, a vendor of screws would like to announce that he is talking about a one-inch screw, in HTML he would have to make that up as a headline, emphasized or, generally speaking, abuse some other tag to express that fact," Dietl said. "In XML, he can simply define a new tag '(length)' for that purpose - and an agent has a much better chance to understand what is going on.... Maybe it will figure that it is not particularly interested in the length of a screw, but it will still know that there are other data objects that have the same field."

XML's user-extensibility, automatability and interoperability can allow "for the first time to create systems for documents with new characteristics," Dietl said. "There can be new user interface characteristics like in W3C's synchronized multimedia working group [where] sound, video and pictures to combine to shape new forms of 'documents.' This allows for a new generation of content brought to and sold via the Web, new opportunities for advertising and contacting the audience," he told ISR.

XML also makes it possible for companies to transport rich descriptions of a spreadsheet to allow another party to automatically interpret the data in that spreadsheet, potentially providing a market for full-power, low-cost electronic data interchange (EDI) applications. "And unlike most current EDI implementations that are restricted to western character sets, W3C has prepared XML for international applications," Dietl added.

The specification primarily is intended to meet the requirements of large-scale Web content providers for industry-specific markup, vendor-neutral data exchange, media-independent publishing, one-on-one marketing, workflow management in collaborative authorizing environments, and the processing of Web documents by intelligent clients.

"XML is an open, human-readable format that does for data what Java does for programs," said Jon Bosak, online information technology architect for Sun Microsystems and chairman of the W3C XML working group. "Together, XML and Java provide a platform- and vendor-independent environment that liberates users from proprietary software and hardware architectures."

#### XML-Data Spec Proposed

In a related matter, four companies have submitted an XML- Data specification proposal for W3C review. The proposal, offered by **Microsoft**, ArborText Inc., DataChannel Inc. and Inso Corp., outlines more detailed capabilities for developers to describe and validate data, thus improving XML's ability to integrate data from multiple sources.

Features in the XML-Data specification include:

- \* An XML-based syntax for schemas, which define the rules of an XML document - including element names, which elements can appear in combination and which attributes are available for each element - and help make XML-based data self-describing to applications that do not already contain built-in descriptions of the data.

- \* A model for extending **XML** elements - to allow developers to specify characteristics about particular **XML** elements, allowing them to augment **schemas** with additional information such as data types, inheritance, **validation** and presentation rules.

For example, the XML-Data schema could specify that the data contained between (price) tags is a number and the data contained between (birth date) tags is a date. "XML brings to the Web an ability to model text and data more accurately and usefully than before," said Paul Grosso, vice president of research at ArborText. "We're excited about XML-Data because it offers strong data-typing abilities, which can increase XML's ability to capture the rich schematic information that databases can work with today."

W3C Communications, contact Kathryn Esplin, 617-258-0604, <http://www.w3.org>; ArborText, 313-997-0200, <http://www.arbortext.com>.

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